

sheet no.	contents
1201-0	Holder (Mod. 452) 6 x 7 cm
1202-0	Holder (Mod. 451) 6 x 9 cm
1205-0	Sinar - Vario
1206-0	Sinar 67
1207-0	Sinar 69
1208-0	Sinar Panorama
1209-0	Sinar zoom
1210-0	Sinar 4x5" sheet film holder
1211-0	Sinar Zoom 2



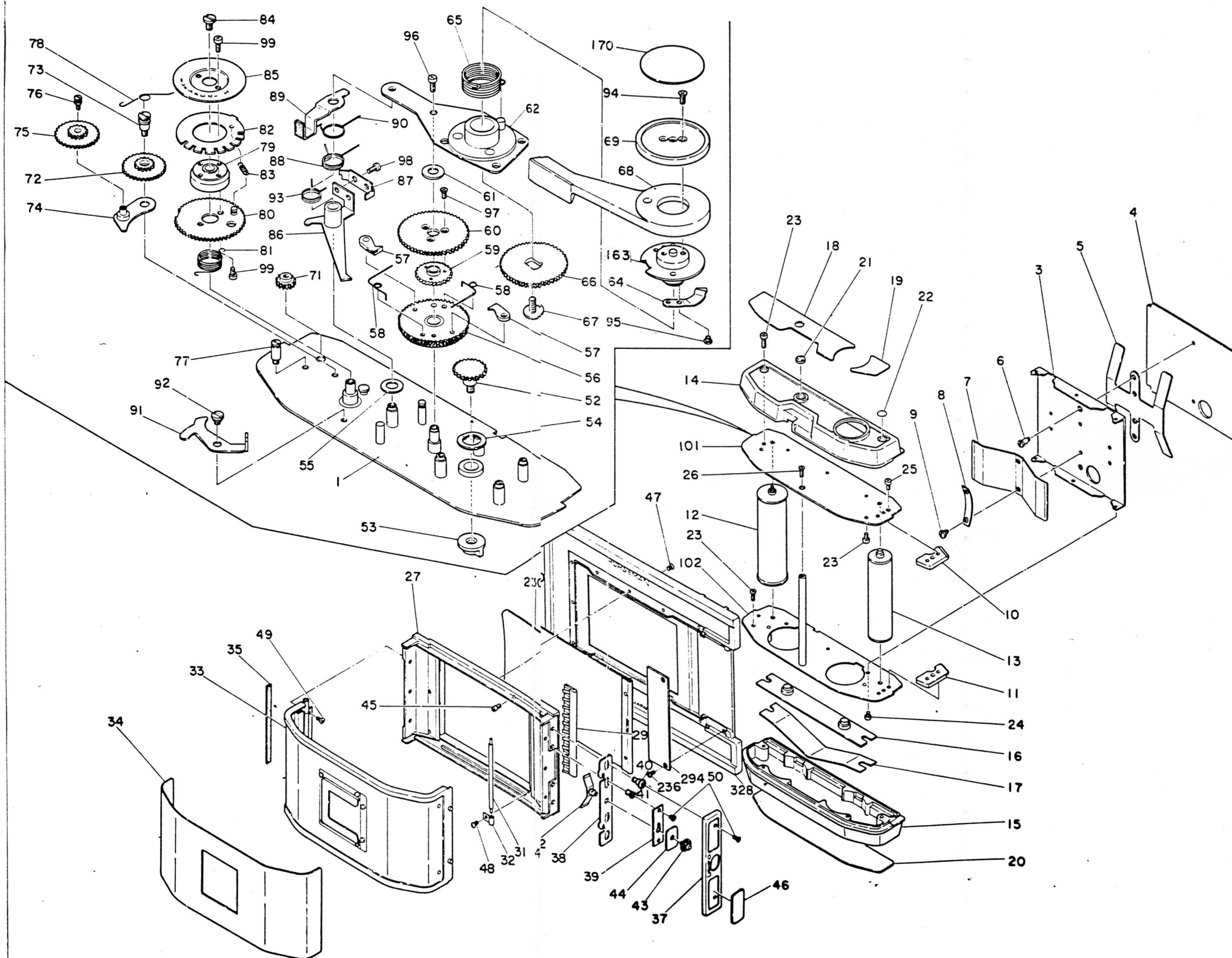
SINAR AG  
Schaffhausen

Holder  
Kassette (Mod. 452) 6 x 7 cm  
Châssis

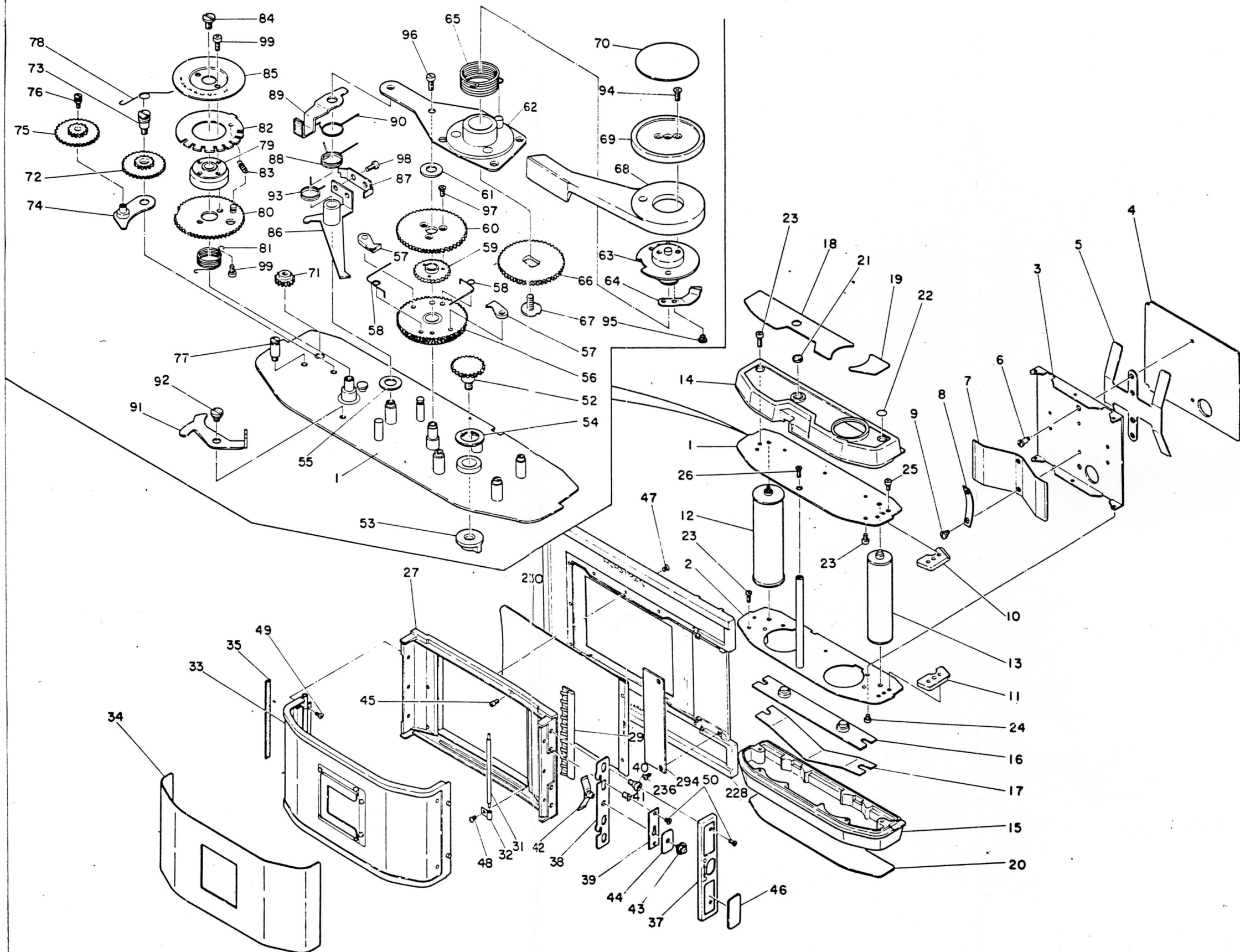
767.64/74

1201-0

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5	1	56	1
6	2	57	2
7	1	58	2
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228	1	79	1
29	1	80	1
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31	2	82	1
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34	1	85	1
35	1	86	1
236	2	87	1
37	1	88	1
38	1	89	1
39	1	90	1
40	2	91	1
41	2	92	1
42	1	93	1
43	1	94	2
44	1	95	2
45	1	96	6
46	2	97	3
47	11	98	2
48	4	99	4
49	3	294	1
50	4		



No.	Q'ty	No.	Q'ty
1	1	52	1
2	1	53	1
3	1	54	1
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39	1	90	1
40	2	91	1
41	2	92	1
42	1	93	1
43	1	94	2
44	1	95	2
45	1	96	6
46	2	97	3
47	11	98	2
48	4	99	4
49	3	294	1
50	4		



Please observe the exchange offer for vario rollfilm holders in the memorandum  
\*cost estimate for Sinar rollfilm holder\* and  
\*check list for return to Sinar rollfilm holders\*.

Characteristics	Defects	Measures
1. Light leakage	See troubleshooting list „light leakage“ sheet 4	
2. Scratches on film	See troubleshooting list „light leakage“ sheet 4	
3. Damage to film edge	Film not running true	Mark position of the guiding edge (1206÷1209-0, pos. A). Detach screw (pos. B) approx. ½ rotation. In case of damage of the right film edge (in direction of transport) the guide edge has to be tilted clockwise approx. 0,2 to 0,3 mm around pivot (pos. C). If the left film edge is damaged, it has to be corrected the other way round. With older rollfilm holders (until 1985) the pressure roll (1205÷1208-13 pos. 03) with Ø 6.8 mm has to be rotated by approx. 0,1 mm in radius on the same side as damage of film
4. Frame intervals too small	Setting of format measuring unit	Dismount format selector, hub and base plate (1205-0 und 1209-0 pos. 27, 28, 30) Remove shutter plug (1205-0 pos. 34, 1206÷1208-0 pos. 25, 1209-0 pos. 37) from side cover. Adjust the excentric control (1205-1÷1209-1, pos. B) with screw driver (max. Ø 2,4) about 1/8 rotation clockwise. With older roll film holder (until 1985) longer arm has to be bent downwards at the reversing lever (1205-1 pos. 13). A bend of approx. 0,3 mm enlarges de frame interval . of 1mm. Analogous (1206-1208-1) bend same lever.
5. Frame intervals too large	Setting of format measuring unit	Proceed as with point 4, but adjust the excentric control anticlockwise.
6. Film intervals strongly irregular	Format measuring unit defect (1205-1, pos. 20) (1206-1÷1208-1, pos. 07) (1209-1, pos. C)	Repair at Sinar

**SINAR ROLL FILM HOLDER**  
**Trouble shooting table, sheet 2**

1205-00 / 1206-00

1207-00 / 1208-00

1209-00

**Characteristics****Defects****Measures**

7. Rear mask  
(1205-3, Pos. 03)  
misaligned

a) Toothed belt (1205-1,  
1209-1, pos. A) is kipping  
on drive.

Vario: Dismantle sliding shoe (1205-1 pos. 14)  
and rotate drive (1205-0, pos. X) to shift  
Mask into correct position. According to  
(1205-3, pos. 03).  
Zoom: Detach the threaded pin (pos. D) at the  
belt stretcher (1209-0, Pos. 33) and rotate drive  
(pos. X). Shift mask into the right posi-  
tion according to (1205-3, pos. 03).

b. Mask is kipping on drive  
(1205-3, pos. Y).

Detach film gate (1205-3, Pos. 01) in the range  
pos. Y. Position mask correctly.  
Setting according to (1205-3).

8. Format cannot be  
adjusted when cover  
is open (vario)

Locking lever squeezes  
(1205-1, pos. Z).

Replace the shaft screw (1205-1 pos. 02)  
Adjust and clean the lever.

9. Rattling metering  
strips (vario)

Setting of measuring  
tape coupling

Turn out screw (1205-2, pos. 12) until mea-  
suring tape is coupled exactly at closed  
cover (1205-13). Possibly replace slide plate  
(1205-2, pos. 13).

10. Rattling metering  
strips (zoom)

Setting of measuring  
tape coupling

Adjust screw (1209-2, pos. 09) until measuring  
tape is coupled exactly at closed cover  
(1205-13).

11. Frame counter  
(1206-0÷1208-0,  
pos. X) is not coup-  
led exactly

Setting of coupling of the  
frame counter

Turn out the screw (1206-0÷1208-0, pos. 11)  
until frame counter is coupled exactly at  
closed cover (1205-13)

12. Film start lock  
does not function

Setting of dead center of  
the tipping shaft

Turn out screw (1205-0, pos. 16/1206÷1208-0,  
pos. 11/1209-0, pos. 16) and adjust the ad-  
justing screw with screw driver (max. Ø 1,5 mm)  
on support (1205-1÷1209-1, pos. X)  
approx. ¼ rotation anticlockwise. If pos. 11  
resp. 16 do not exist, the side cover has to be  
detached.

13. Format stop  
Does not function

a) Tooth belt (1206-1÷  
1208-1, pos. 08)  
off driving wheel

Mount again and readjust belt tension.

b) Format measuring unit  
(1205-1, pos. 20/1206-1÷  
1208-1, pos. 07/1209-1,  
pos. C) defect

Repair at Sinar

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**Characteristics**
**Defect**
**Measures**

14. Load-Exp-lever  
(1205-0 pos. 19/1206  
-0÷1208-0, pos. 17/  
1209-0 pos. 19)  
blocked or broken

Sleeve movement in mea-  
suring drum defect or re-  
setbold blocked.

Repair or replace measuring unit. Repair at  
Sinar.

15. Transport lever  
(1205-0, pos. 22/  
1206-0÷1208-0, Pos.  
20/1209-0, pos. 22)  
blocked

Coupling sleeve or  
coupling shaft defect

Replace coupling sleeve (1205-11, pos. 08/  
1209-11 pos. 05) or whole coupling shaft,  
(1205-11/pos. 01/1209-11, pos. 01)

16. Film is not  
transported

a) Film cartridge is not  
inserted properly

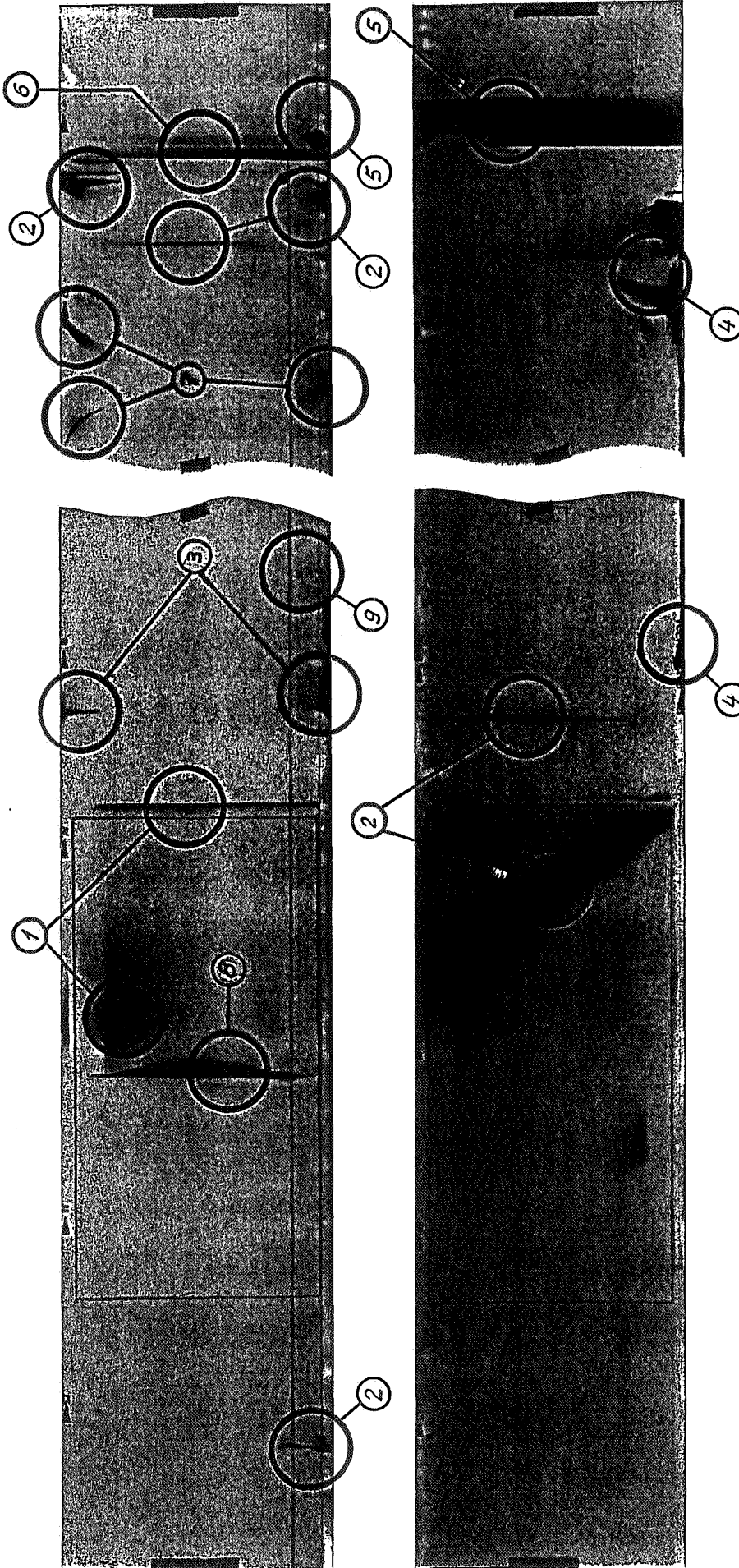
When loading press the film cartridge vertically  
into the film holder up to the limit stop and press  
the transport lever. Control if the take up spool  
was coupled.

b) Spool coupling at film  
cartridge defect.

Exchange coupling sleeve (1205-14, pos. 09)  
Control if long springdowel sleeve (5 mm)  
was mounted (1205-14, pos. 11).

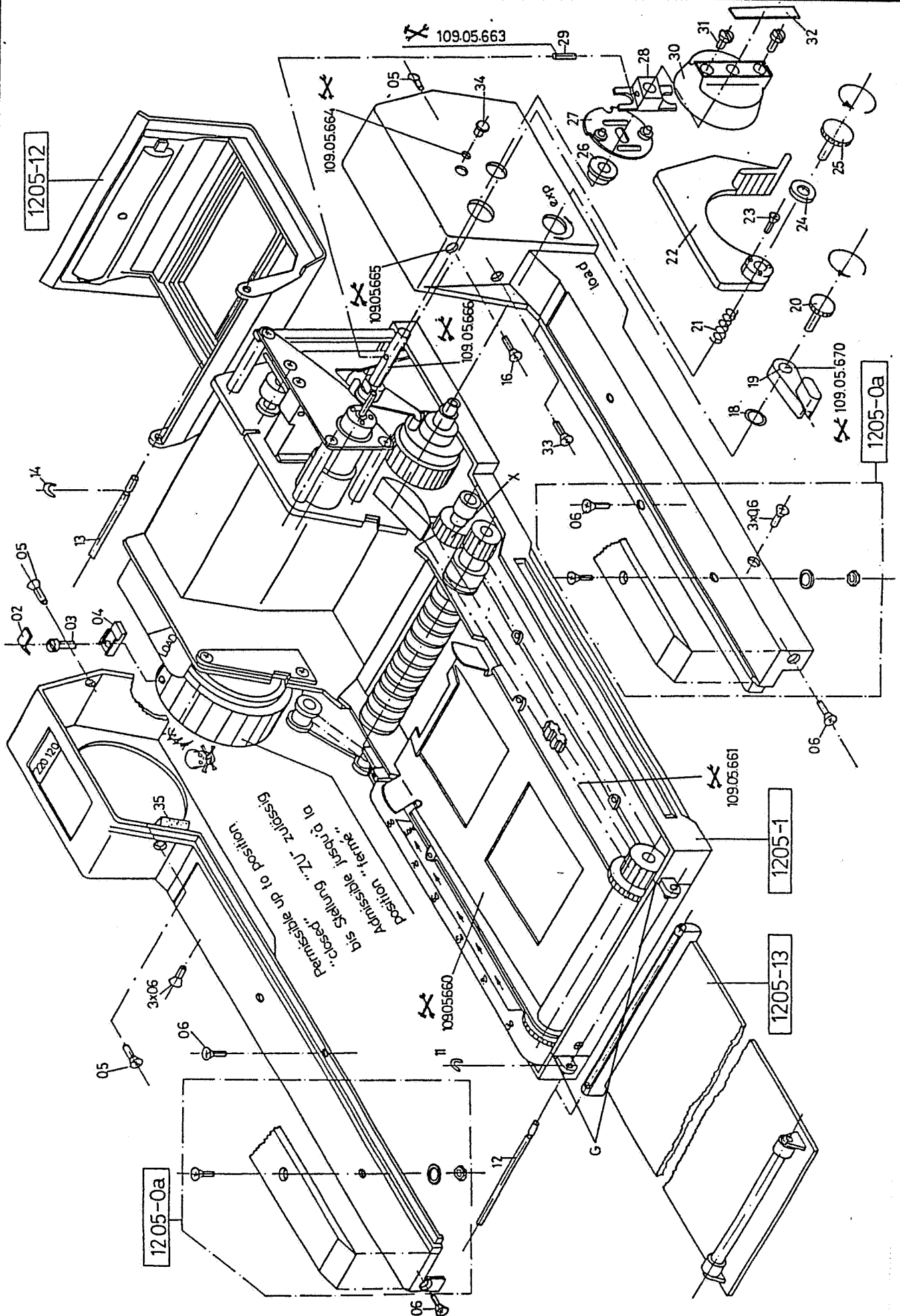


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1. Light leakage between mask and film gate. Replace velvet on supports and film gate. (1205-3 pos. 02, 06, 07).
2. Light leakage between support and film gate. Seal with Eich sealing and thread on both sides (1205-3).
3. Light leakage at front between side panels and support. Seal on both sides at front with Eich sealing (1205-1209-0, detail G).
4. Cover bent at front. Align cover (1205-1208-13).
5. Light leakage between side panels and carrier at cover closure. Replace joint rubber (1205-0, pos. 35/1206-0-1208-0, pos. 27/1209-0, pos. 38).
6. Light leakage at rear cover windows. Stick thread in U-groove (1205-1209-12, pos. 10).
7. Cover behind (1205-1209-12) is not closed properly.
8. Bent masks (1205-3, pos. 03, 04) do not close properly. Readjust or replace.
9. Scratches on film. Replace sealing lips in film cartridge (1205-14, pos. 05, 06) or pressure roll (1205-1208-13, pos. 03). Mount slideway lining at cover in front (1205-1208-13, pos. 06, 07).

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## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1205-0

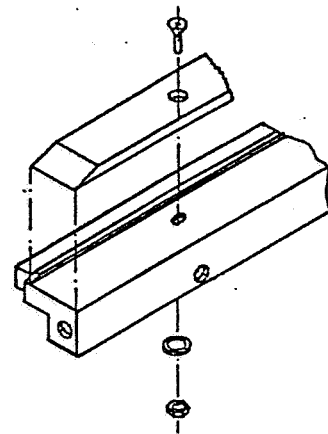
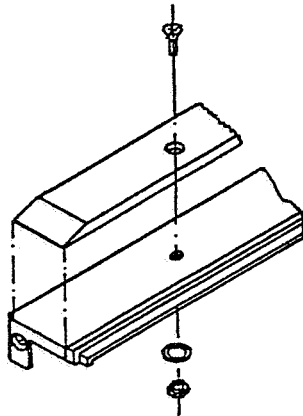
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DATUM 96/10/30

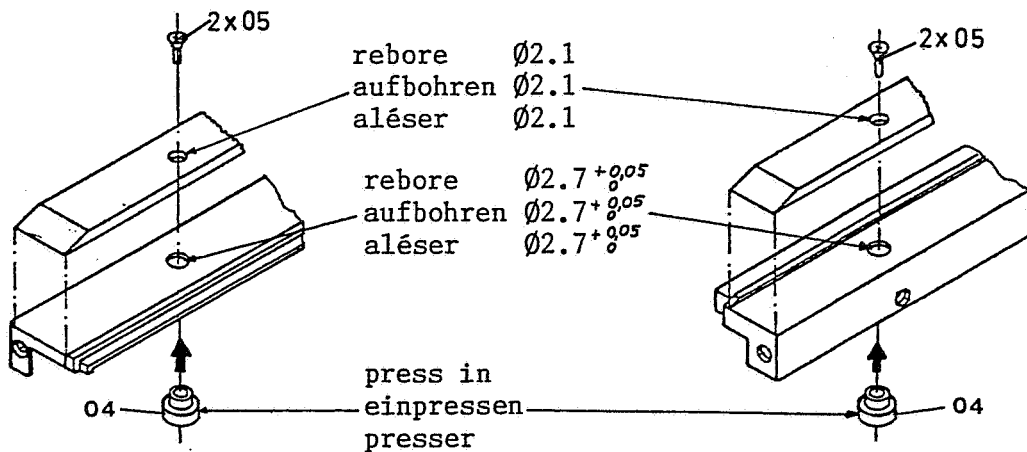
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2	567.12.596	3	161.73.052
4	567.12.338	5	164.31.656
6	164.31.654	11	166.70.202
12	567.12.569	13	567.12.566
14	166.70.005	16	164.31.887
18	167.01.020	19	567.12.248
20	567.12.548	21	168.00.046
22	567.12.442	23	164.31.634
24	567.12.592	25	567.12.586
26	567.12.557	27	567.12.212
28	567.12.626	29	160.91.038
30	567.12.439	31	162.23.083
32	567.12.599	33	164.31.655
34	567.54.527	35	567.22.634
100	109.05.663	101	109.05.664
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104	109.05.660	105	109.05.661
106	109.05.670		

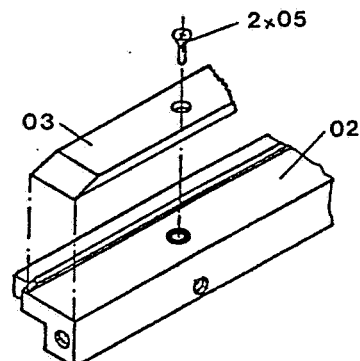
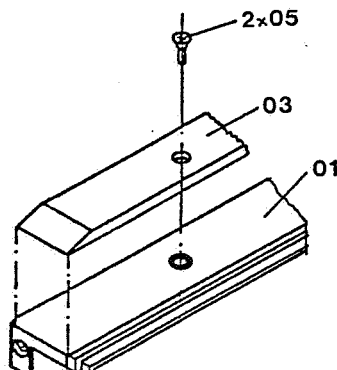
old condition  
alter Zustand  
vieil état



Conversion of old condition to new condition by service-station.  
Umbau von altem Zustand zu neuem Zustand durch Servicestelle.  
Transformation de la vieil état à nouvel état par la station de service.



new condition  
neuer Zustand  
nouvel état



SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1205-0A

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DATUM 95/01/27

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.22.240	2	567.12.239
3	567.12.602	4	431.31.533
5	164.31.887		



## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

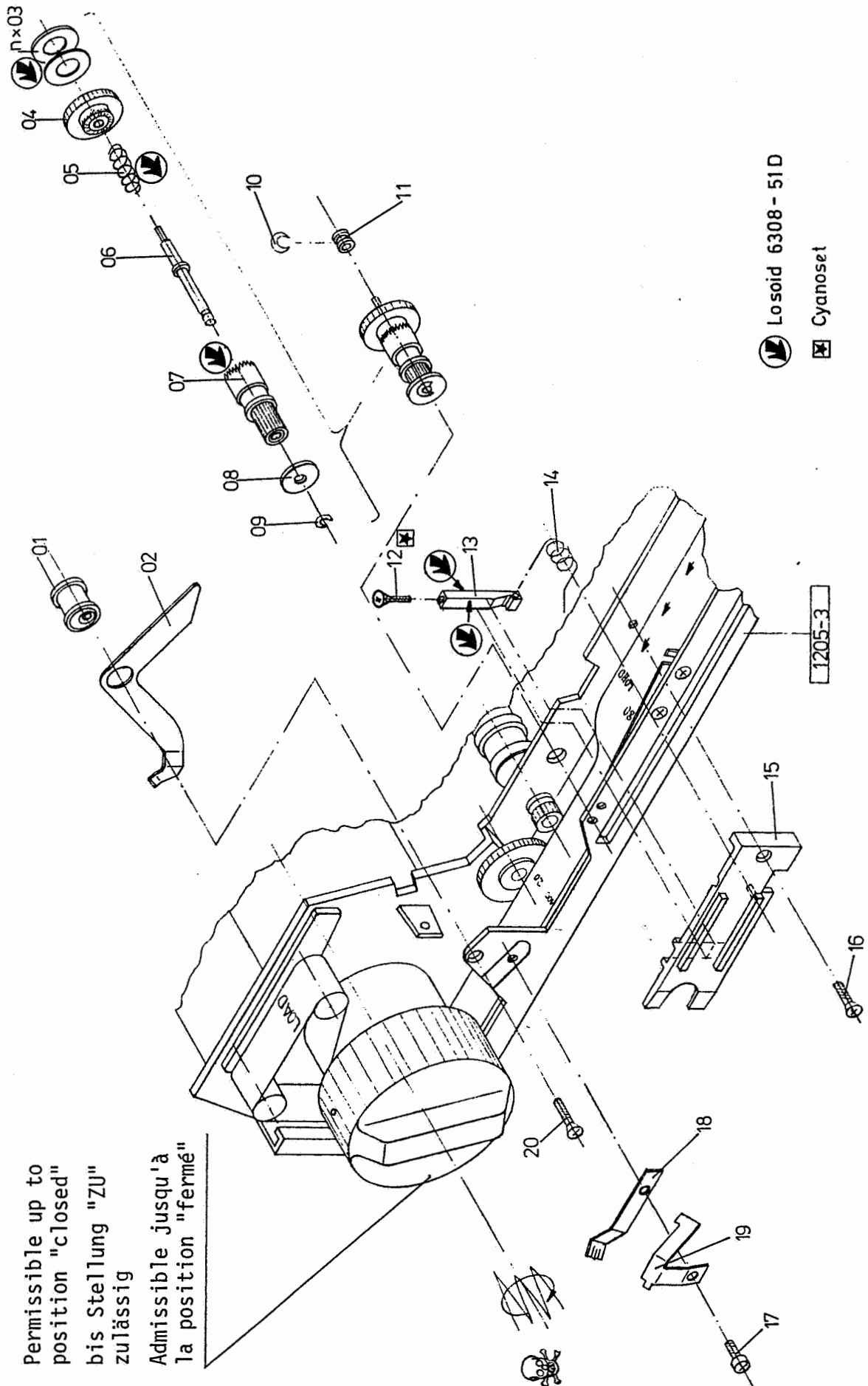
S1205-1

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DATUM 96/11/22

INDEX 1

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1	567.22.214	2	567.12.583
3	164.31.888	4	161.73.090
5	567.12.234	6	567.12.595
7	164.31.655	8	164.31.653
9	567.12.574	10	169.40.000
11	567.12.328	12	567.12.329
13	567.12.397	14	567.12.247
15	567.22.230	16	567.12.530
17	168.01.010	18	567.12.210
19	164.31.870	20	567.12.120
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102	109.05.667		



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## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

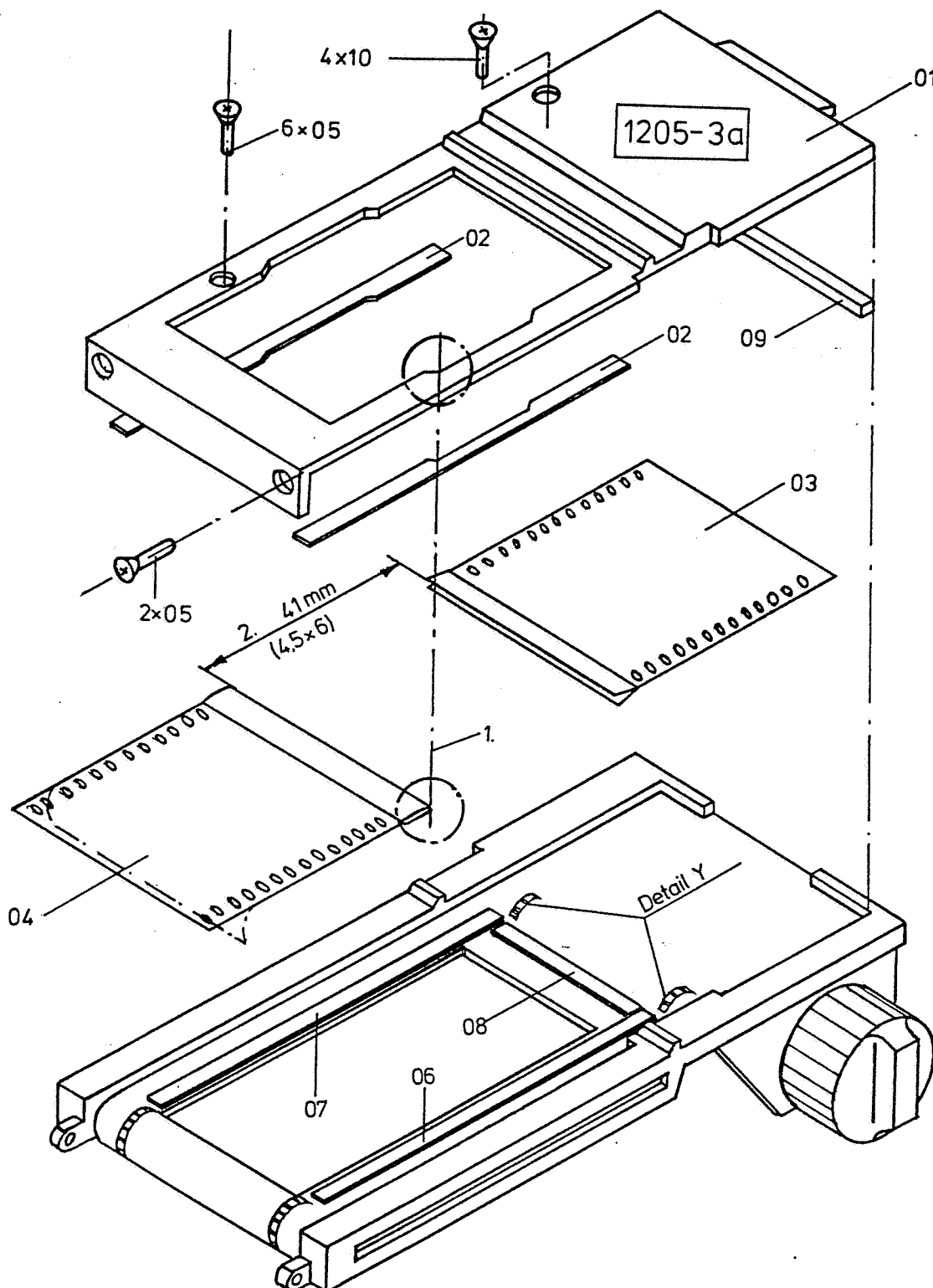
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DATUM 90/10/09

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1	567.12.249	2	567.12.372
3	166.39.203	4	567.12.306
5	168.00.040	6	567.12.515
7	567.12.305	8	166.37.060
9	166.70.005	10	166.70.011
11	567.12.516	12	164.31.655
13	567.12.307	14	168.02.022
15	567.12.308	16	164.31.002
17	161.73.034	18	567.12.373
19	567.12.374	20	164.31.030



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SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1205-3

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DATUM 90/10/09

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.242	2	567.12.617
3	567.12.235	4	567.12.236
5	164.31.654	6	567.12.634
7	567.12.635	8	567.12.636
9	567.12.612	10	164.31.655



S1205-3A

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INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.242	2	567.12.617
3	567.12.235	4	567.12.236
5	164.31.654	6	567.12.634
7	567.12.635	8	567.12.636
9	567.12.612		

**sinar**

SINAR AG SCHAFFHAUSEN

567.12/35/45/54

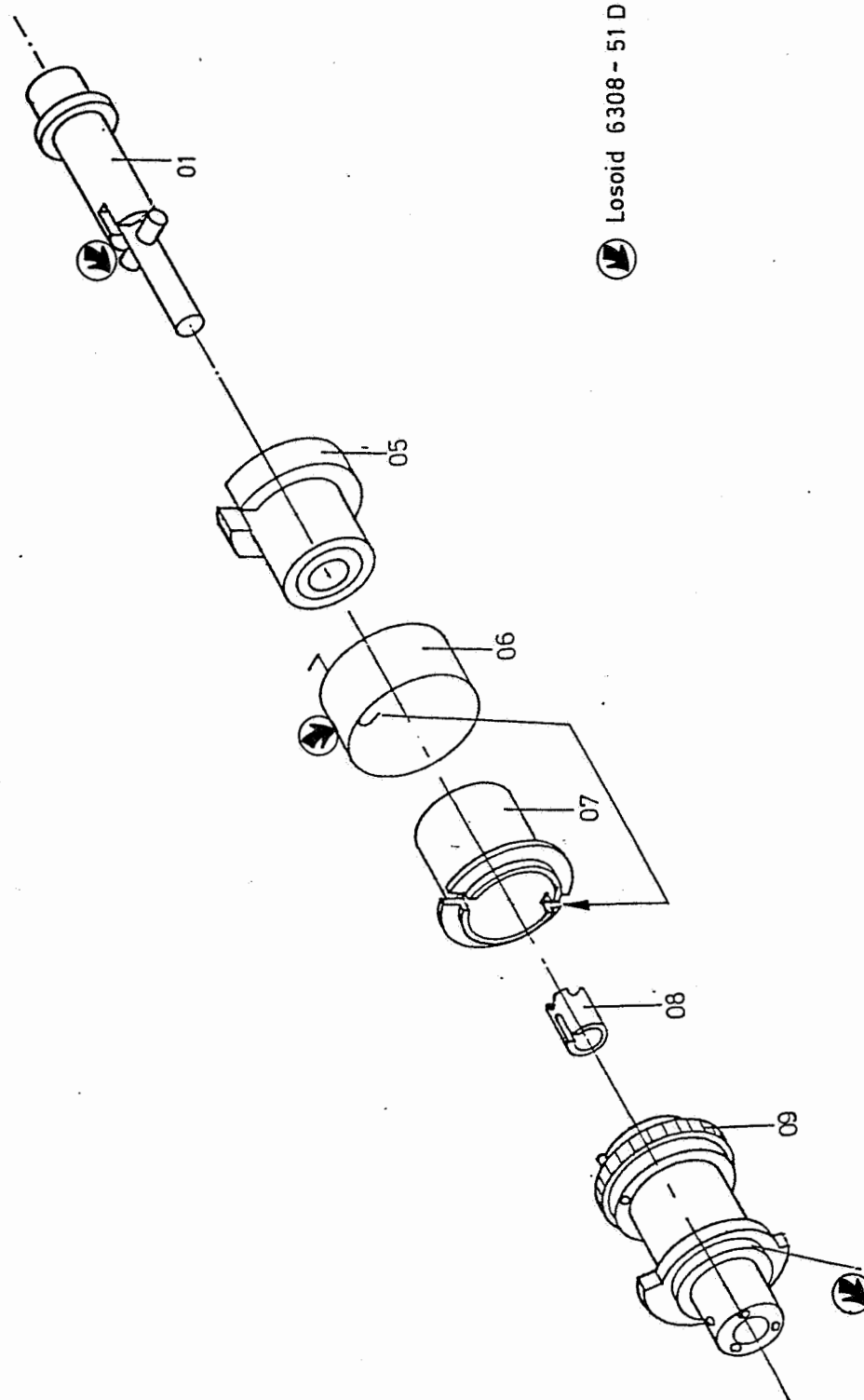
Coupling axle

Kupplungsachse

Axe d'accouplage

V a r i o

1205-11



Losoid 6308 - 51 D

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Edition No. 5

Replaces all previous issues./ Ersetzt alle bisherigen Ausgaben./ Remplace toutes les précédentes éditions.

Date: 1.95

Vis:



## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

51205-11

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DATUM 95/01/27

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.230	5	567.12.224
6	168.02.027	7	567.12.600
8	567.12.562	9	567.12.225

**sinar**

SINAR AG SCHAFFHAUSEN

567.54. / 45 / 35

Fix format rollfilm holder

Festformat-Kassetten

Châssis rollfilm format fixe

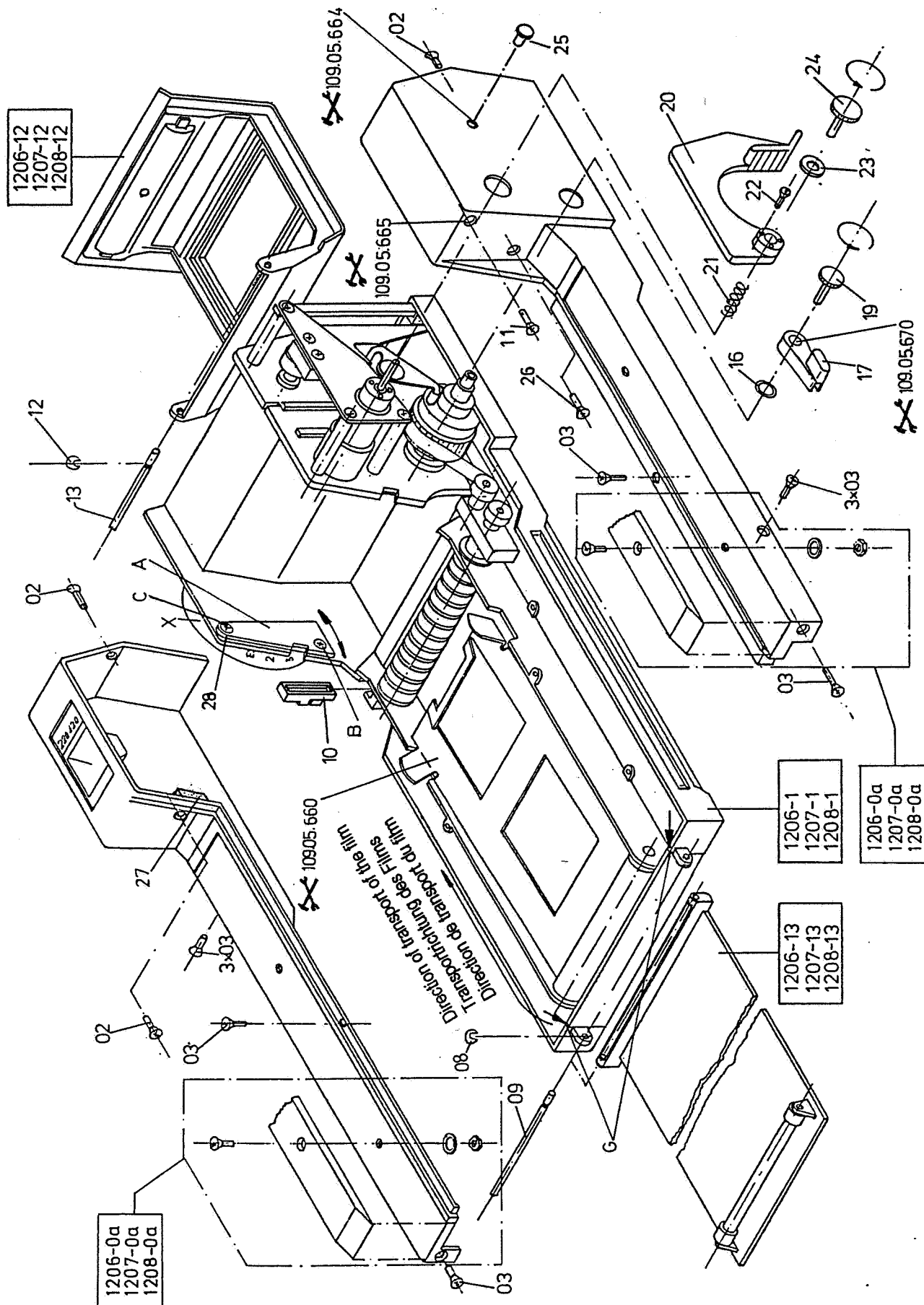
Sinar 67, Sinar 69

Panorama

1206-0

1207-0

1208-0



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Date: 12.97

Vis: 7/

## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1206-0

DATUM 97/12/10

INDEX 1

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2	164.31.656	3	164.31.654
8	166.70.202	9	567.12.569
10	567.22.220	12	166.70.005
13	567.12.566	16	167.01.020
17	567.12.248	19	567.12.548
20	567.12.440	21	168.00.046
22	164.31.634	23	567.12.592
24	567.12.586	25	567.54.527
26	164.31.655	27	567.22.634
28	166.30.061	100	109.05.664
101	109.05.665	102	109.05.660
103	109.05.670		

**sinar**

SINAR AG SCHAFFHAUSEN

567.54/.45/.35

Fix format rollfilm holders

Festformat-Kassetten

Châssis rollfilm format fixe

Sinar 67, Sinar 69

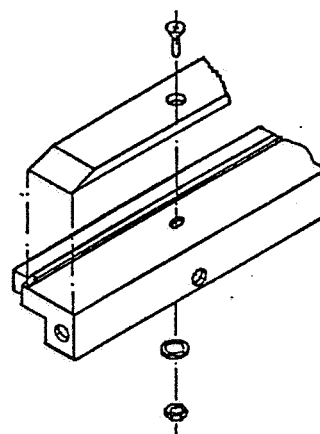
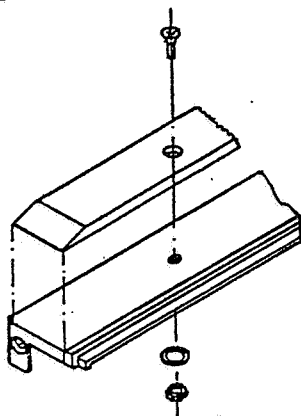
Panorama

1206-0a

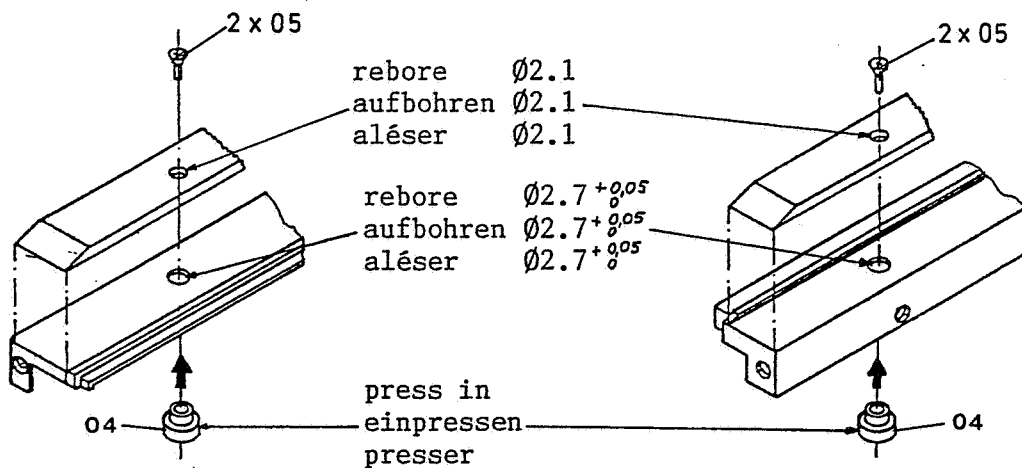
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1208-0a

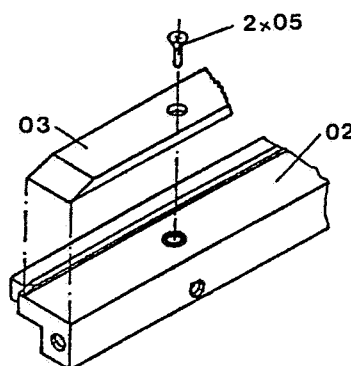
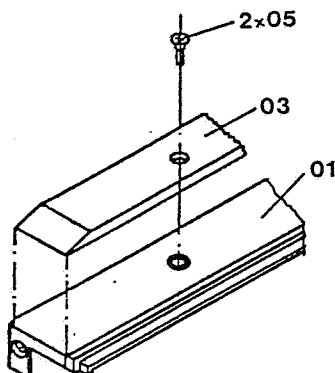
old condition  
alter Zustand  
vieil état



Conversion of old condition to new condition by service-station.  
Umbau von altem Zustand zu neuem Zustand durch Servicestelle.  
Transformation de la vieil état à nouvel état par la station de service.



new condition  
neuer Zustand  
nouvel état



SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1206-0A

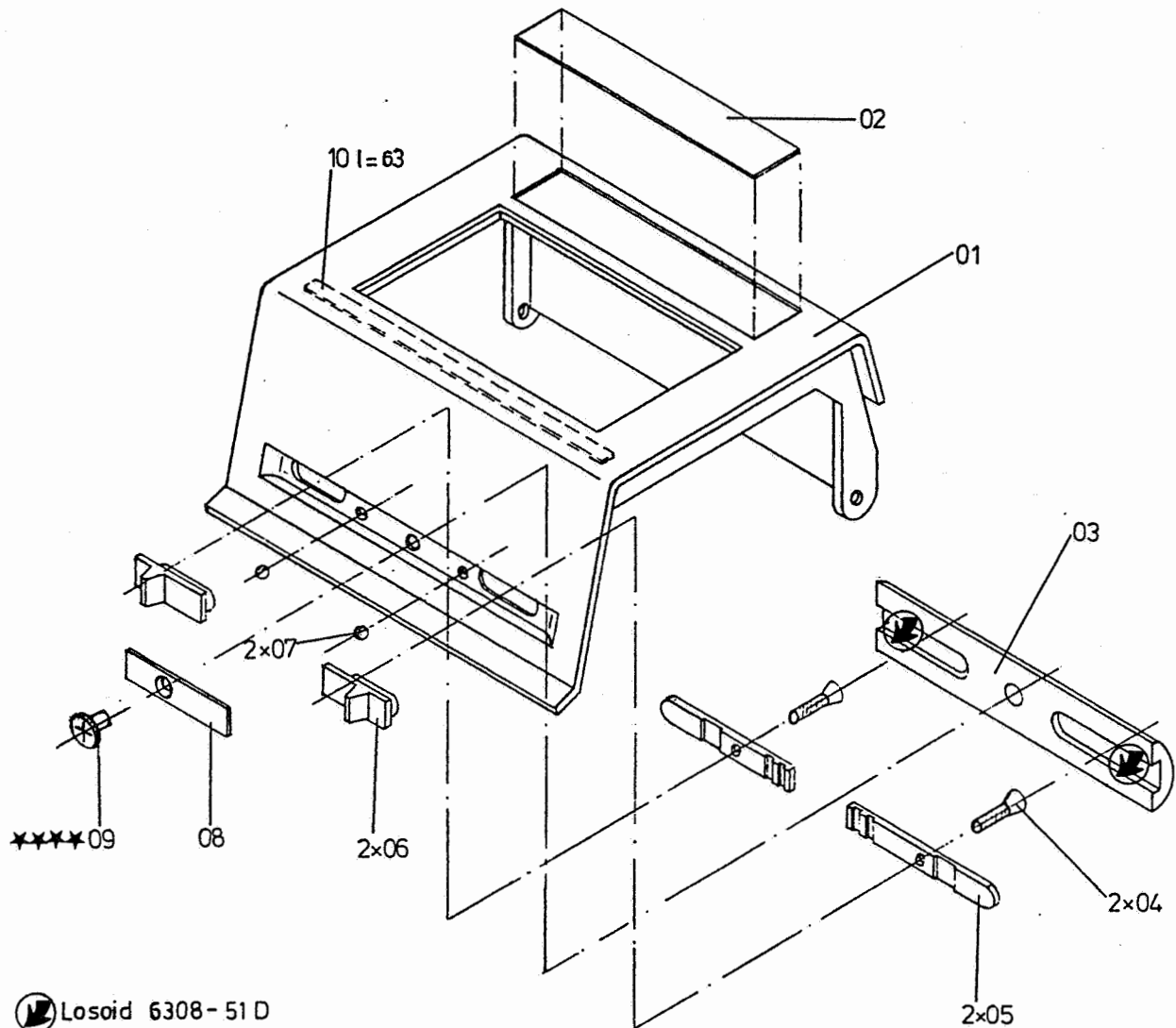
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DATUM 95/01/27

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.54.208	2	567.54.207
3	567.12.602	4	431.31.533
5	164.31.887		

567.12



Losoid 6308-51 D

Loctite 243

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1205-12

\*\*\*\*\*

DATUM 96/10/30

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.430	2	567.12.564
3	567.12.576	4	164.31.655
5	567.12.594	6	567.12.432
7	168.70.018	8	567.22.365
9	164.11.114	10	149.40.016



**sinar**

SINAR AG

front cover


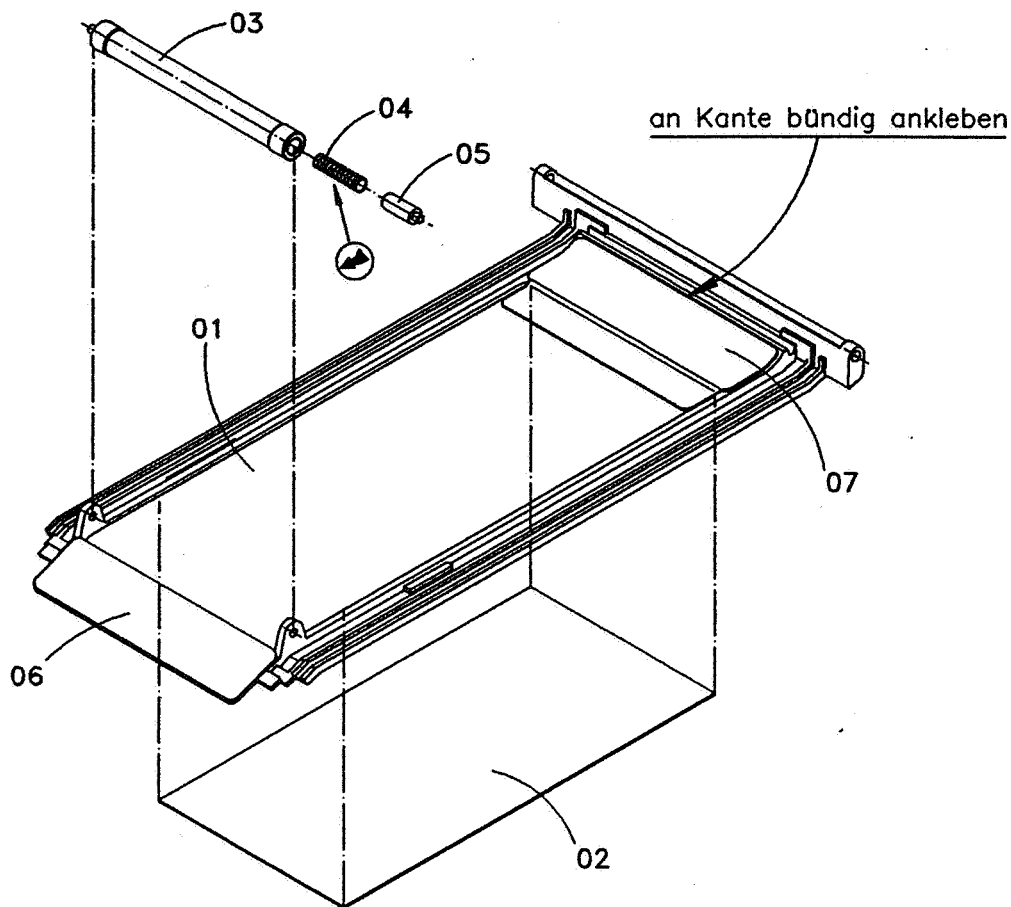
vorderer Deckel

couvercle avant

Vario/Zoom/Zoom2

1205-13

567.12/22/32. ...

 = Losoid 6308-51D

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1205-13

DATUM 98/02/13

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.434	2	567.12.597
3	567.12.567	4	168.00.047
5	567.12.568	6	567.22.251
7	567.12.360		

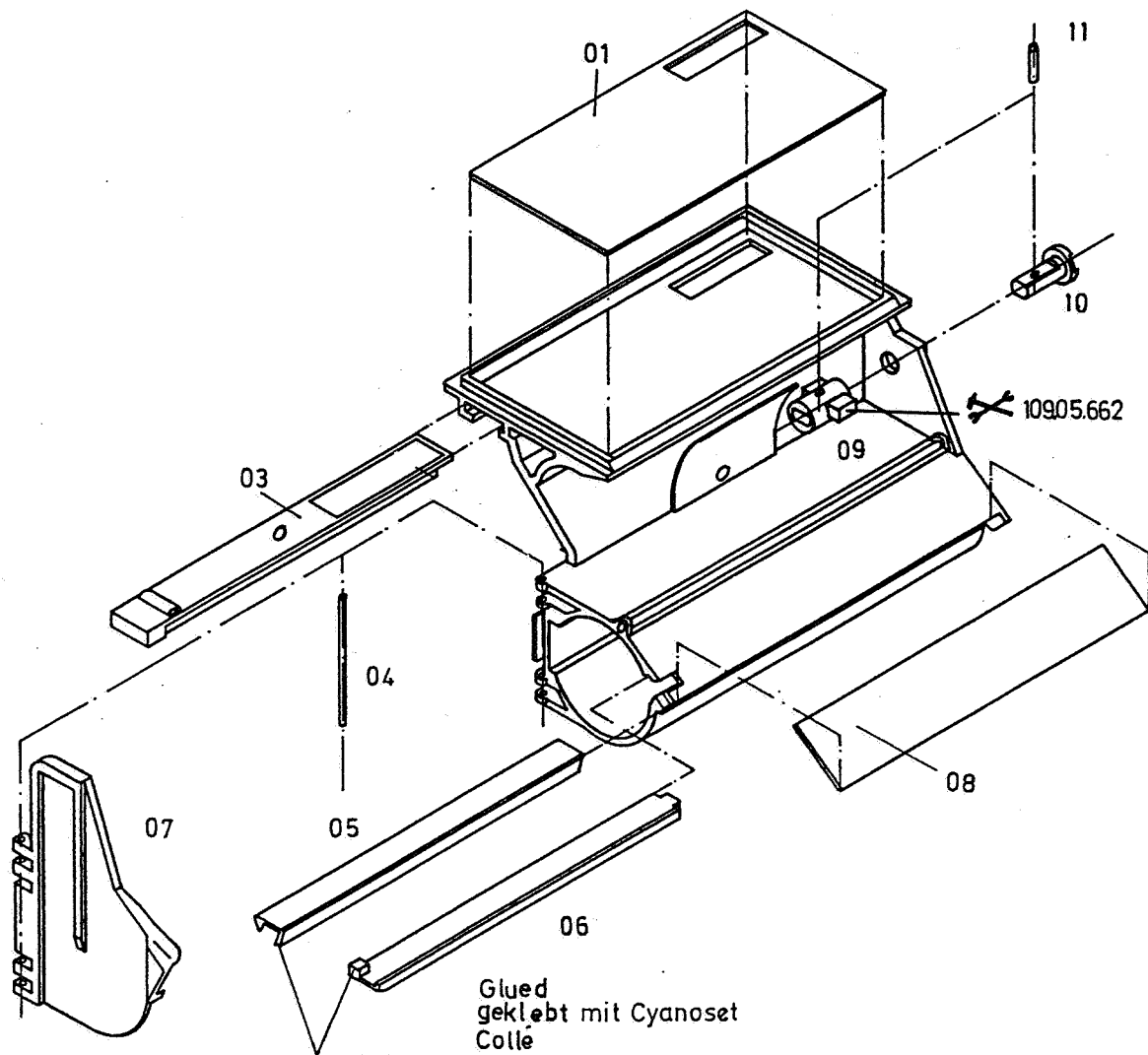
Edition No.: 5

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Date: 6.98

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## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

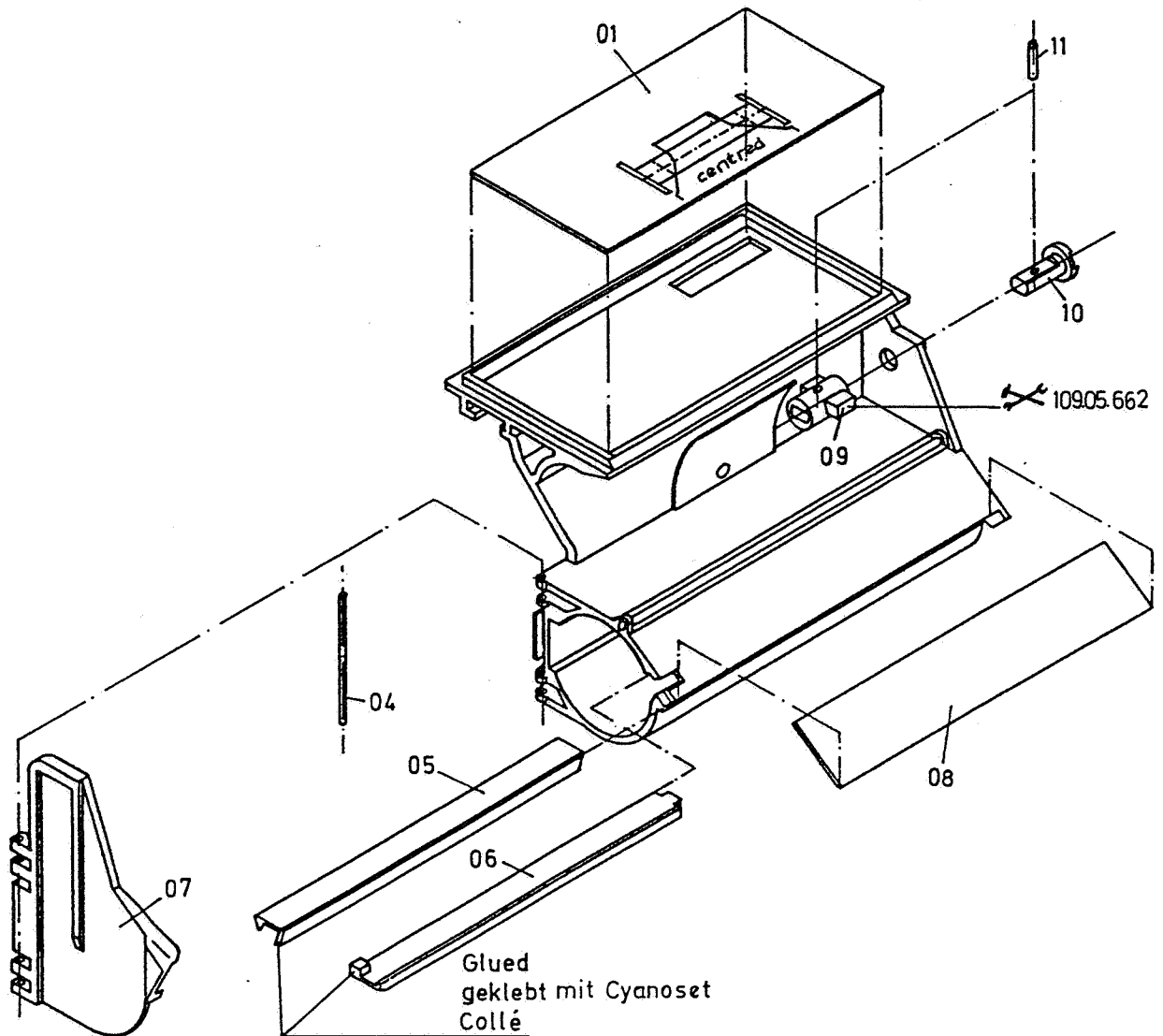
S1205-14

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DATUM 97/09/29

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.92.396	3	567.92.001
4	567.92.503	5	567.92.200
6	567.92.201	7	567.92.401
8	567.92.392	9	567.92.302
10	567.92.501	11	160.96.011
100	109.05.662		



## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1205-14A

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DATUM 97/09/29

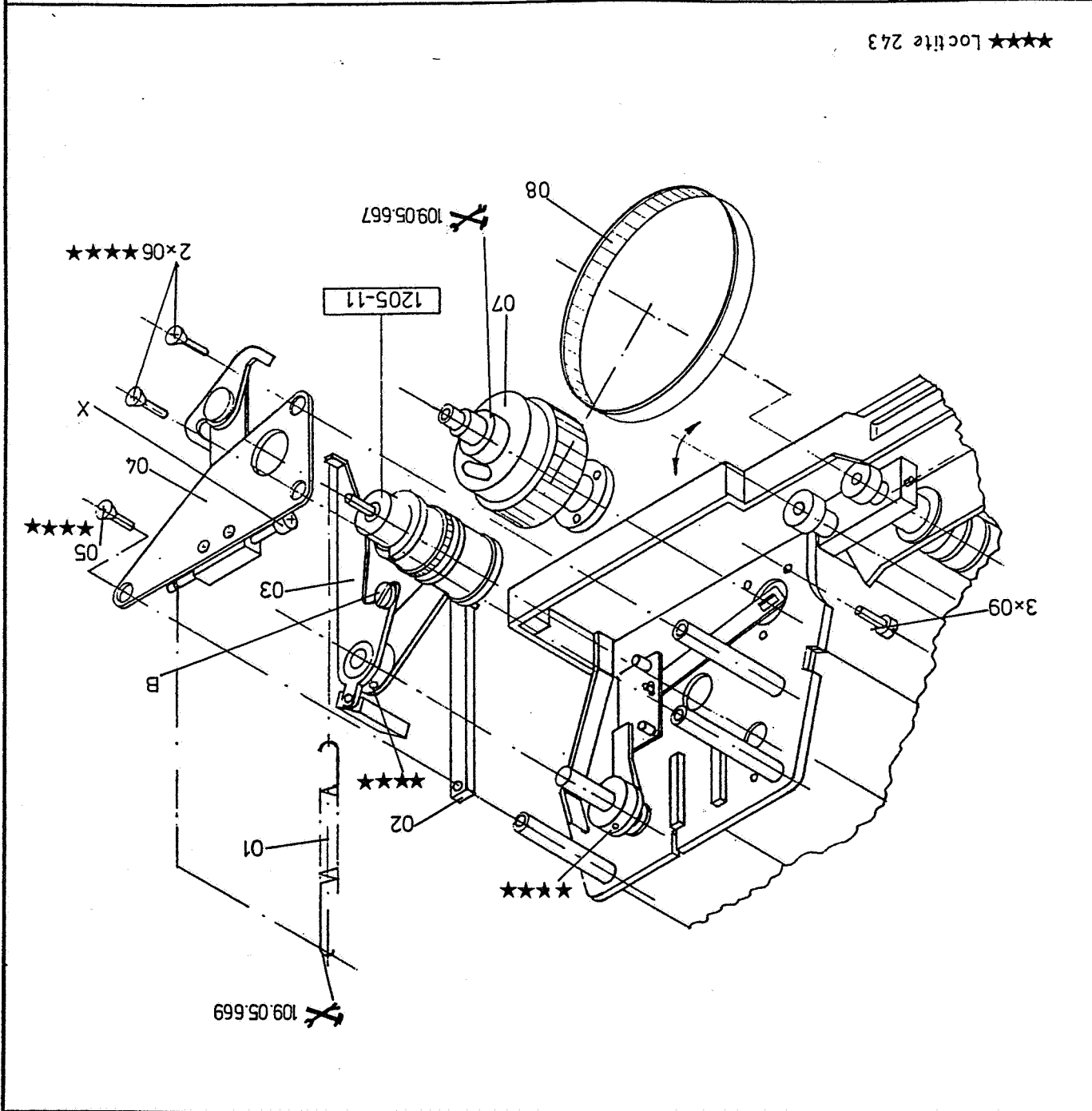
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POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.92.396	4	567.92.503
5	567.92.200	6	567.92.201
7	567.92.401	8	567.92.392
9	567.92.302	10	567.92.501
11	160.96.011	100	109.05.662

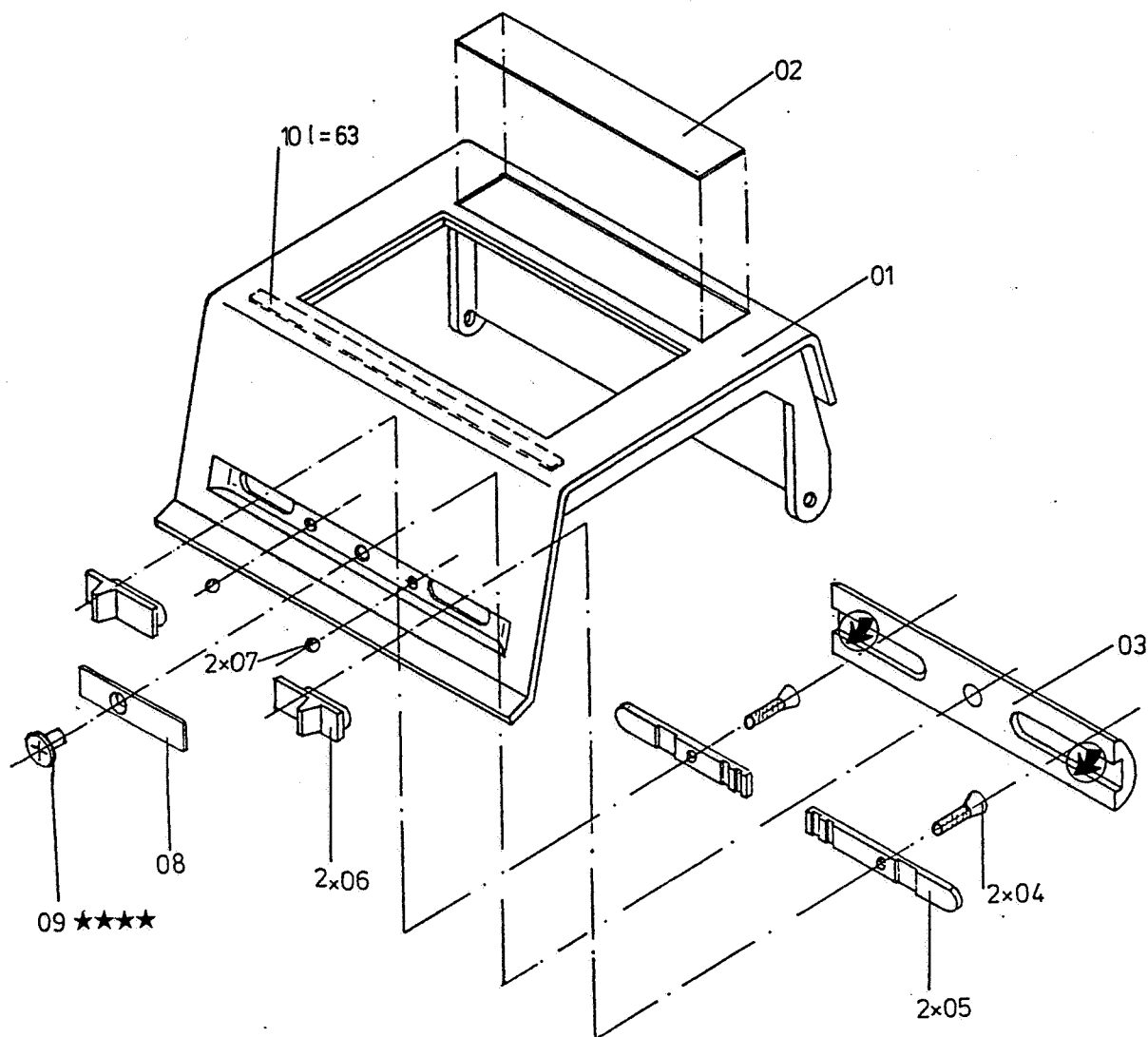
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Edition No. 5		Replaces all previous issues / Ersetzt alle bisherigen Ausgaben / Remplace toutes les précédentes éditions.		Date: 11.96	Vis: 71
101	168.01.010	109.05.667	100	109.05.669	
9	161.73.090		8	169.40.000	
7	567.54.120		6	164.31.888	
5	164.31.870		4	567.54.210	
3	567.22.230		2	567.12.574	
POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE		

DATUM 96/11/22	INDEX 0
SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE	
*****	
S1206-1	



567.54



Losoid 6308-51 D

★★★★ Loctite 243

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1206-12

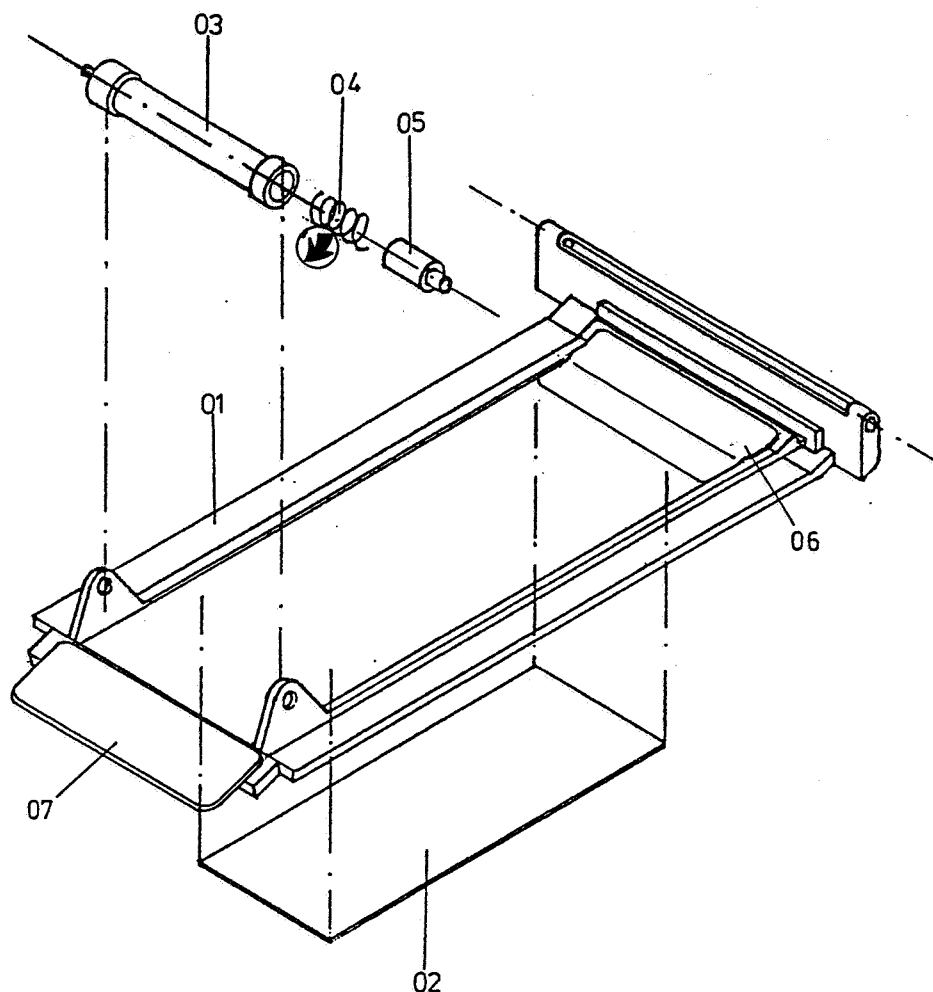
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DATUM 96/10/30

INDEX I

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.430	2	567.54.564
3	567.12.576	4	164.31.655
5	567.12.594	6	567.12.432
7	168.70.018	8	567.22.365
9	164.11.114	10	149.40.016

567.54



 Losaid 6308 - 51D

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1206-13

\*\*\*\*\*

DATUM 90/10/09

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.434	2	567.54.597
3	567.12.567	4	168.00.047
5	567.12.568	6	567.12.360
7	567.22.251		

Edition No. 5

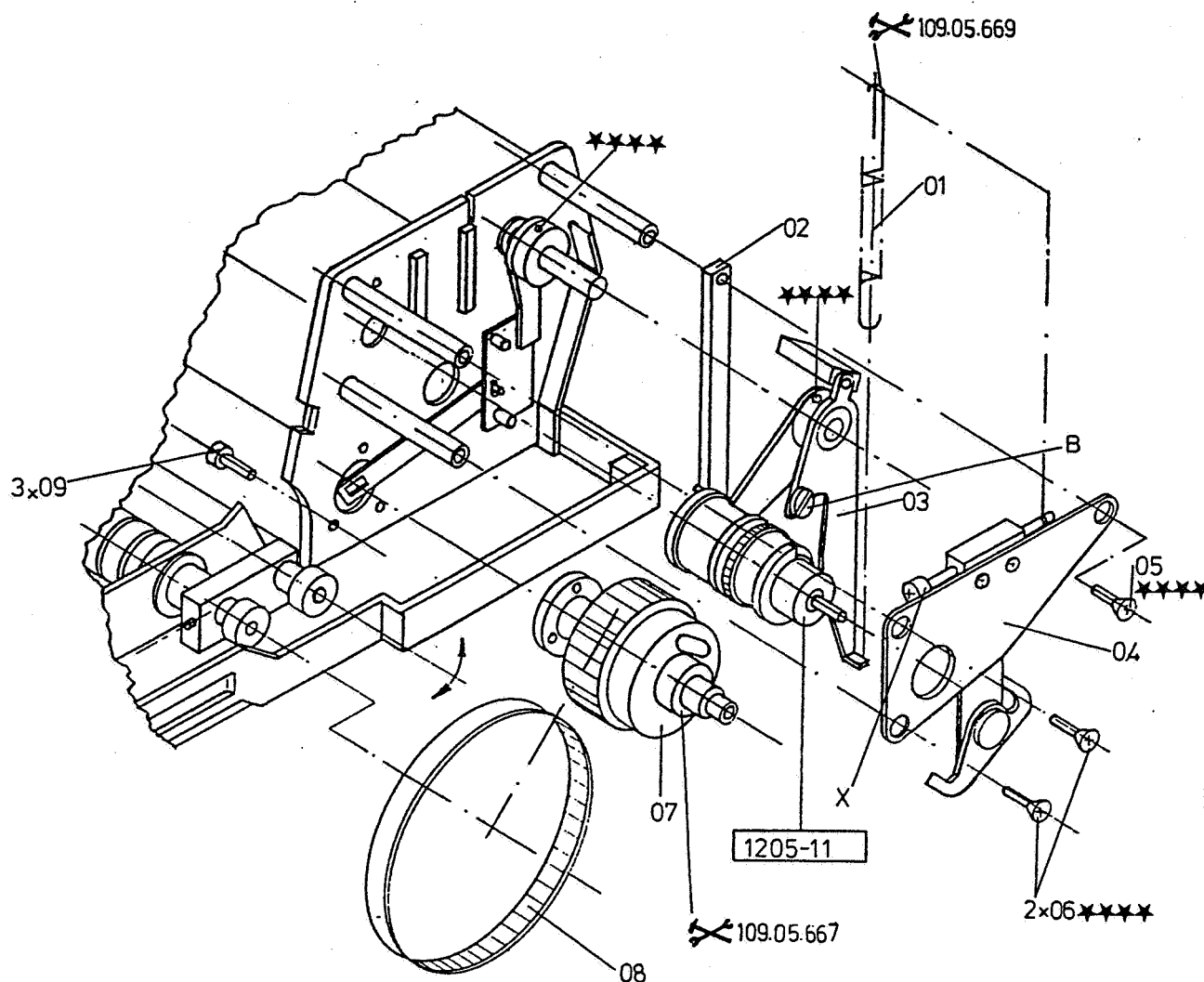
Replaces all previous issues./ Ersetzt alle bisherigen Ausgaben./ Remplace toutes les précédentes éditions.

Date: 11.96

Vis: FI



567.45



\*\*\*\* Loctite 243

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

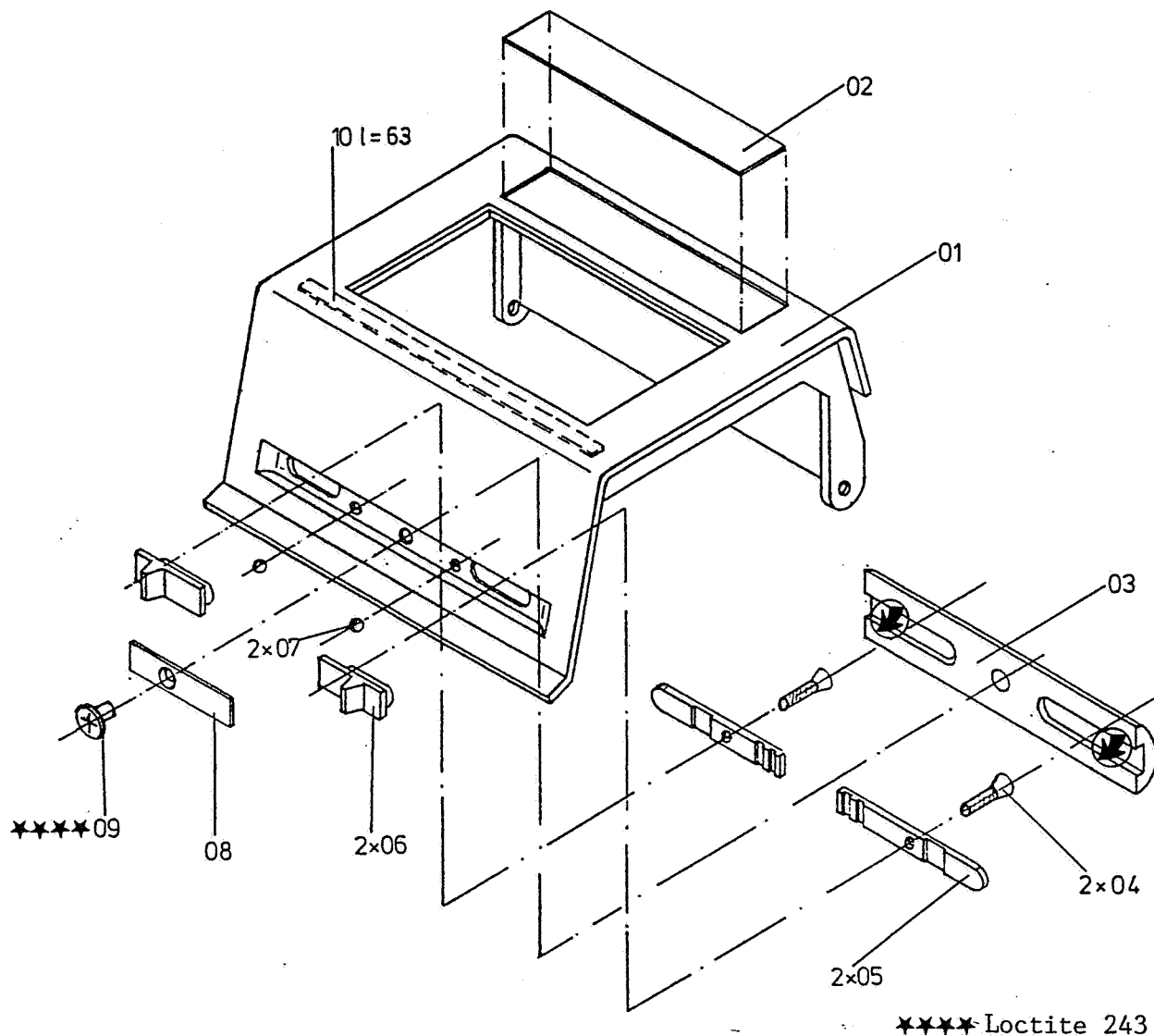
S1207-1

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DATUM 96/11/22

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	168.01.010	2	567.12.574
3	567.22.230	4	567.54.210
5	164.31.870	6	164.31.888
7	567.45.120	8	169.40.000
9	161.73.090	100	109.05.669
101	109.05.667		



Losoid 6308 - 51 D

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

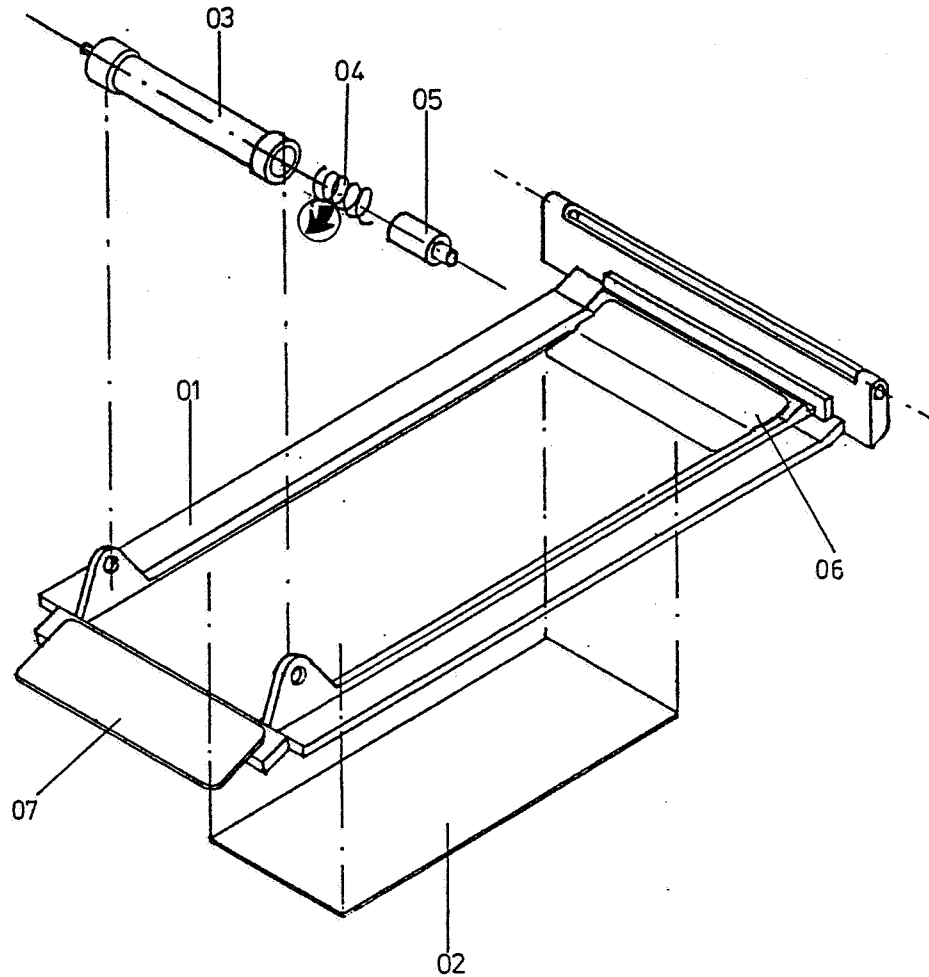
S1207-12

\*\*\*\*\*

DATUM 96/10/30

INDEX 1

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.430	2	567.45.564
3	567.12.576	4	164.31.655
5	567.12.594	6	567.12.432
7	168.70.018	8	567.22.365
9	164.11.114	10	149.40.016



Losoid 6308-51D

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

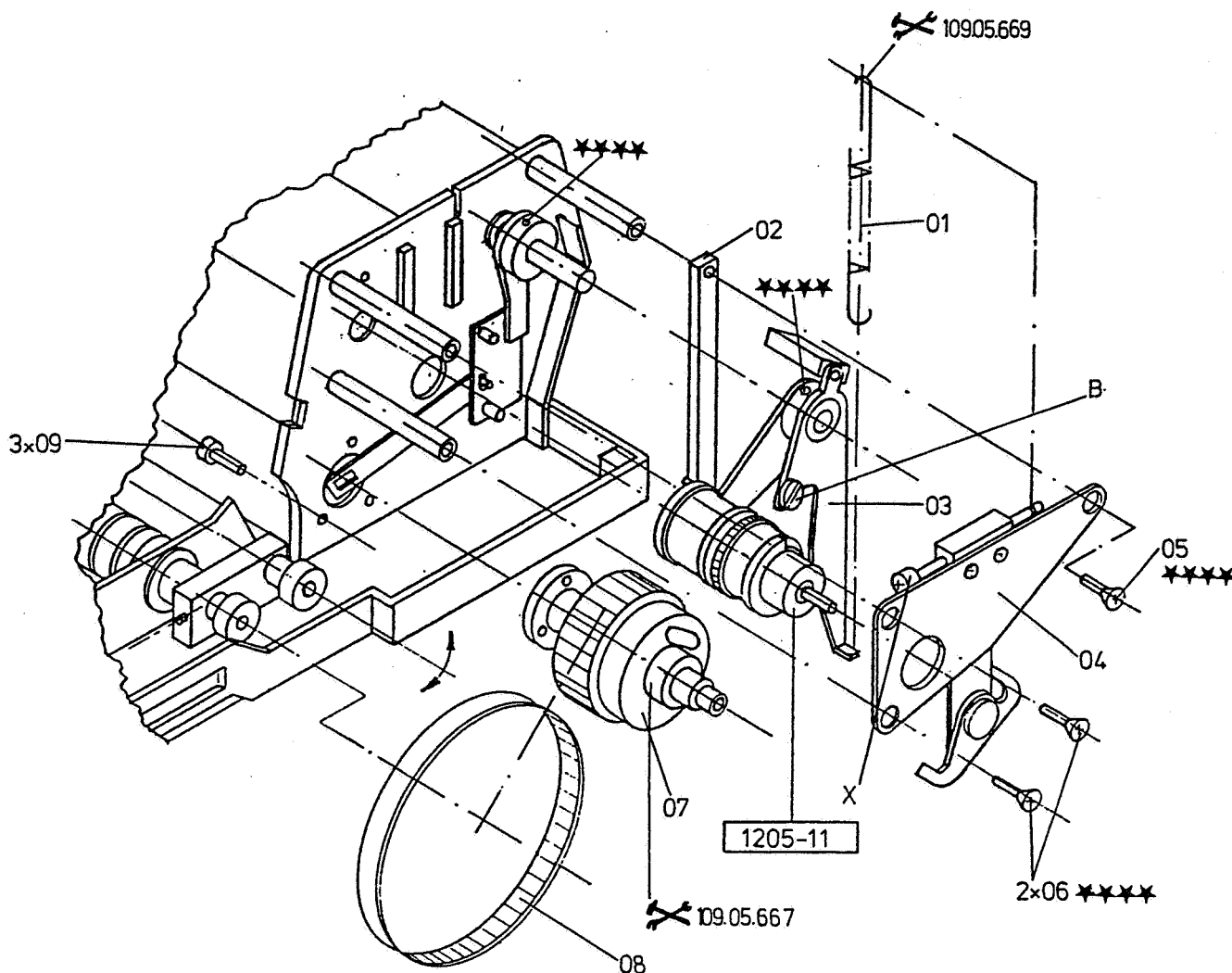
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DATUM 90/10/09

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.434	2	567.45.597
3	567.12.567	4	168.00.047
5	567.12.568	6	567.12.360
7	567.22.251		



\*\*\*\* Loctite 243

## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

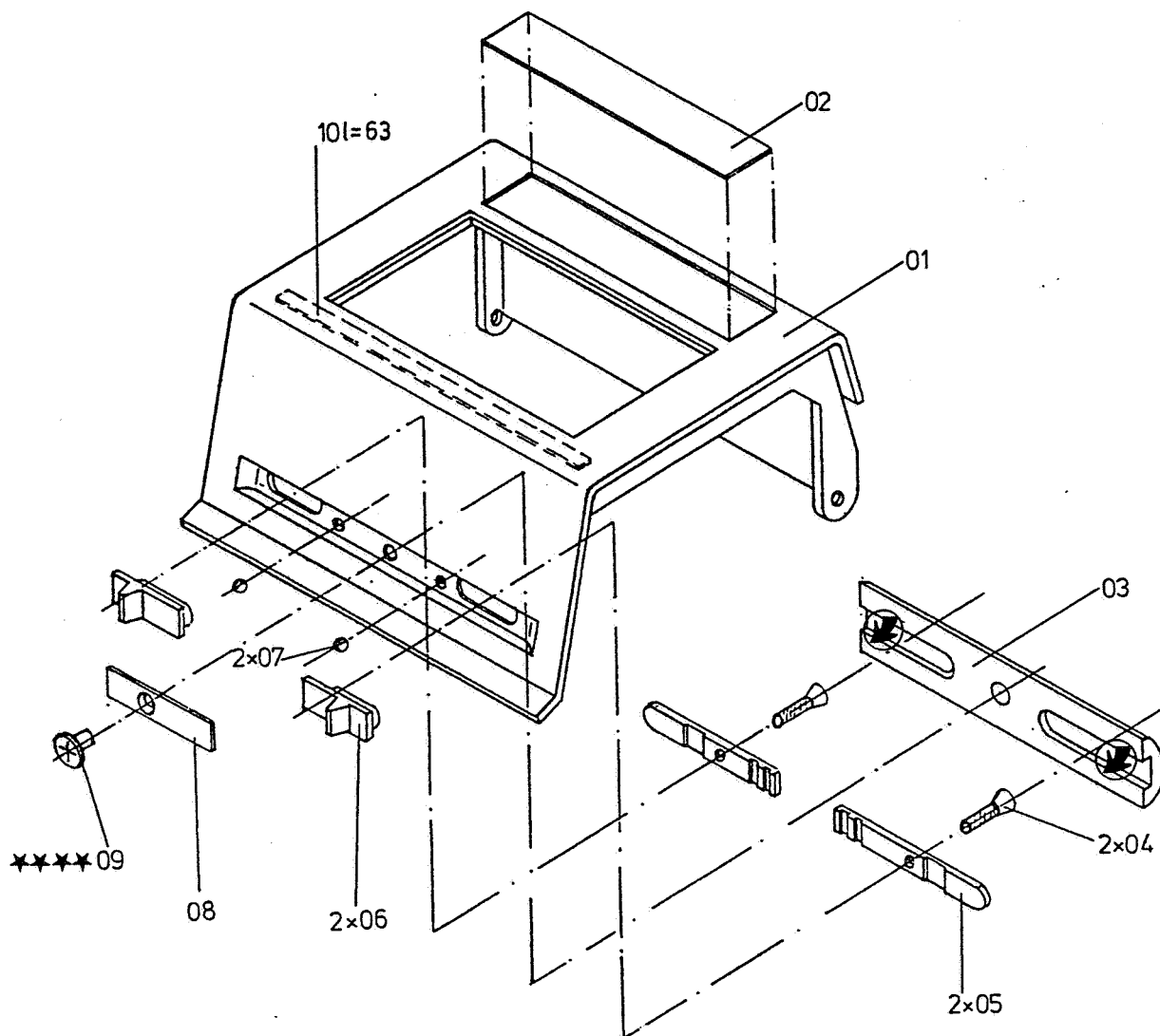
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DATUM 96/11/22

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	168.01.010	2	567.12.574
3	567.22.230	4	567.54.210
5	164.31.870	6	164.31.888
7	567.35.120	8	169.40.000
9	161.73.090	100	109.05.669
101	109.05.667		



Losoid 6308 - 51 D

\*\*\*\*\* Loctite 243

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

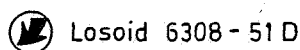
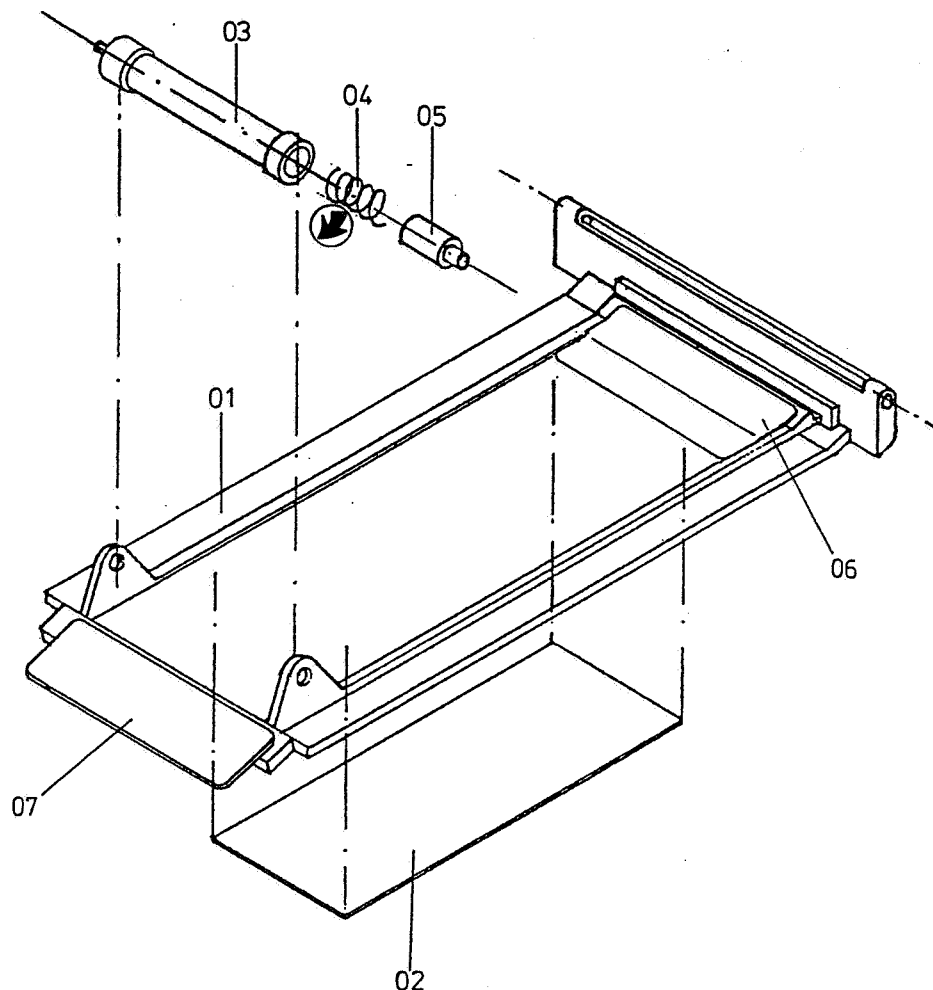
S1208-12

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DATUM 96/10/30

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.430	2	567.35.564
3	567.12.576	4	164.31.655
5	567.12.594	6	567.12.432
7	168.70.018	8	567.22.365
9	164.11.114	10	149.40.016



SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1208-13

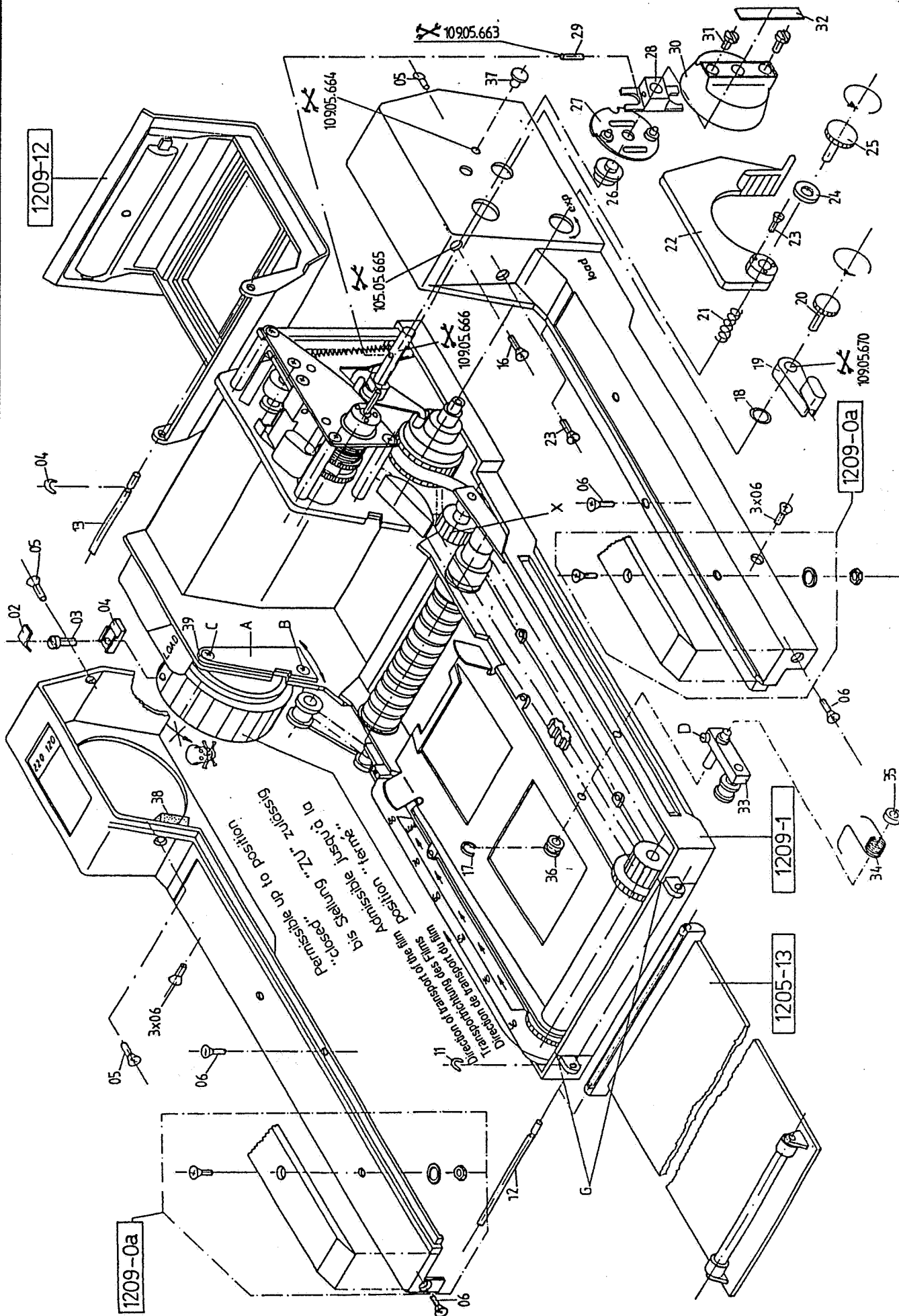
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DATUM 90/10/09

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.434	2	567.35.597
3	567.12.567	4	168.00.047
5	567.12.568	6	567.12.360
7	567.22.251		

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## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1209-0

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DATUM 96/11/22

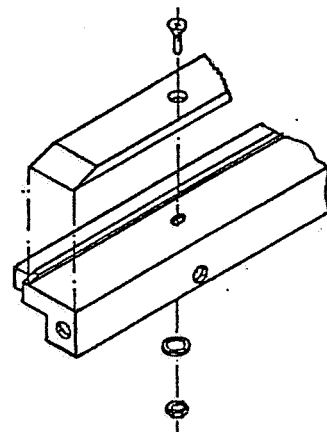
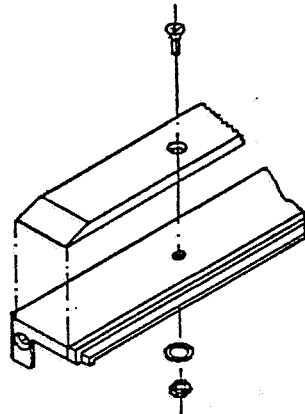
INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
2	567.12.596	3	161.73.052
4	567.12.338	5	164.31.656
6	164.31.654	11	166.70.202
12	567.12.569	13	567.12.566
14	166.70.005	16	164.31.887
17	166.70.011	18	167.01.020
19	567.12.248	20	567.12.548
21	168.00.046	22	567.12.442
23	164.31.655	24	567.12.592
25	567.12.586	26	567.22.508
27	567.22.212	28	567.12.626
29	160.91.038	30	567.12.439
31	162.23.083	32	567.12.599
33	567.22.210	34	168.02.038
35	567.22.531	36	567.12.516
37	567.54.527	38	567.22.634
39	166.30.061	100	109.05.663
101	109.05.664	102	109.05.665
103	109.05.666	104	109.05.670

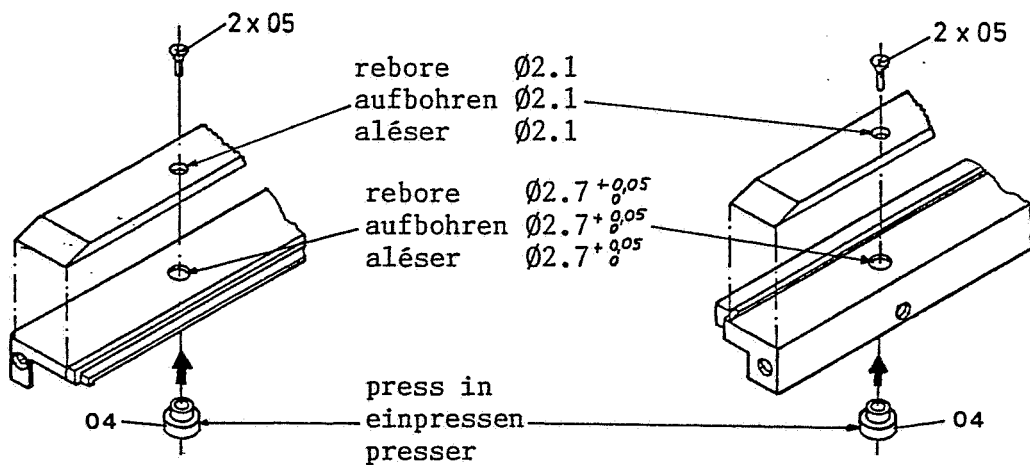


567.22.

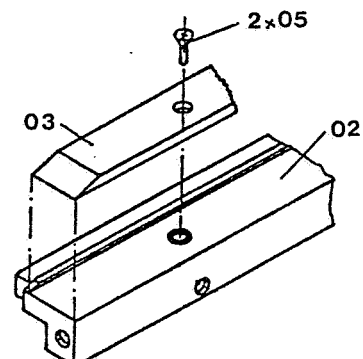
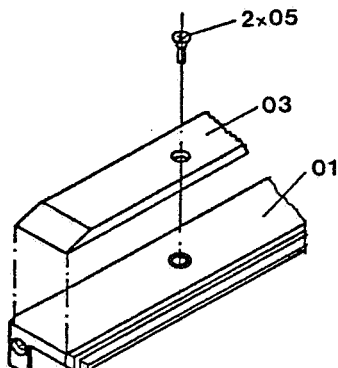
old condition  
alter Zustand  
vieil état



Conversion of old condition to new condition by service-station.  
Umbau von altem Zustand zu neuem Zustand durch Servicestelle.  
Transformation de la vieil état à nouvel état par la station de service.



new condition  
neuer Zustand  
nouvel état



## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1209-0A

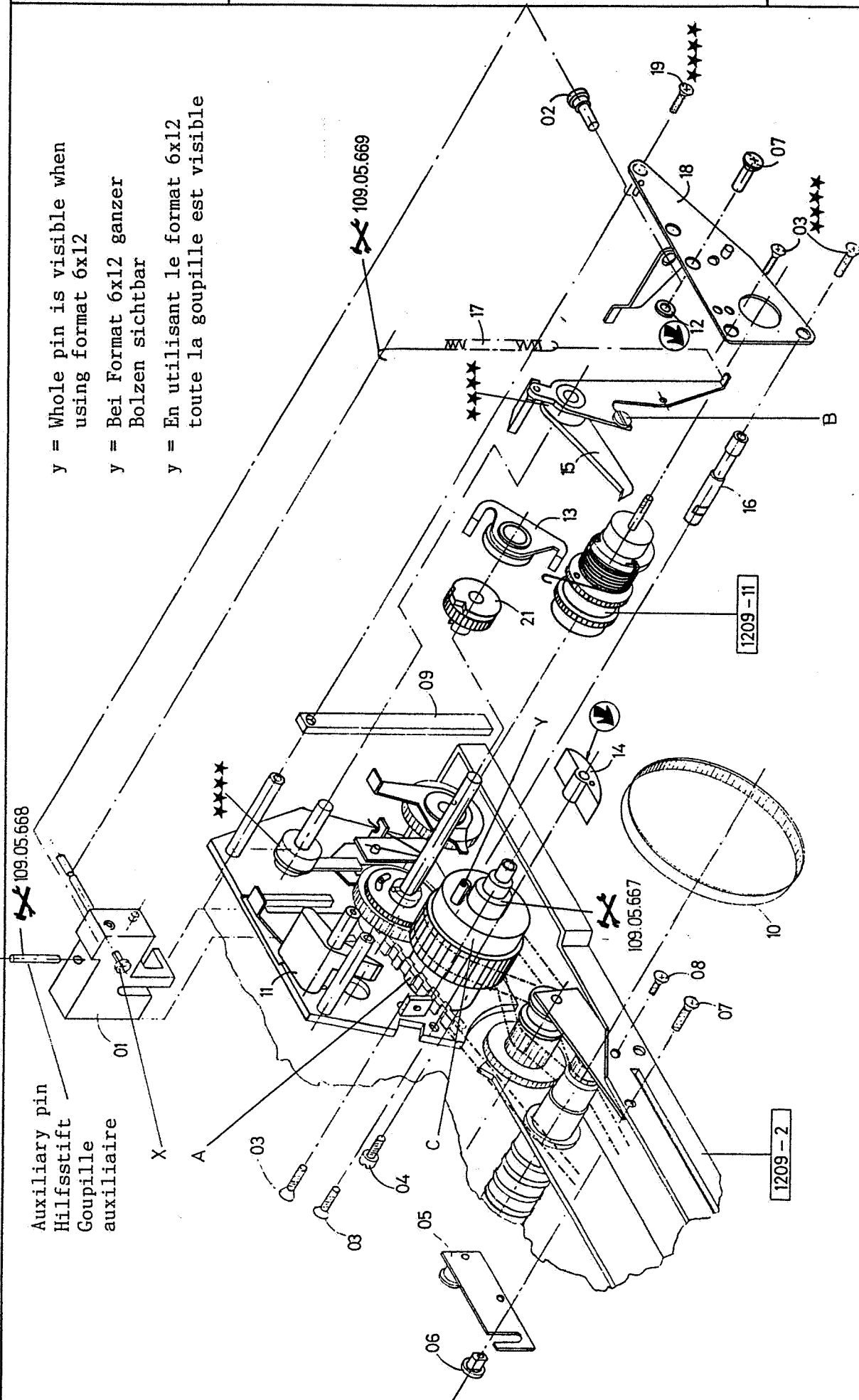
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DATUM 95/01/27

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.22.240	2	567.12.239
3	567.12.602	4	431.31.533
5	164.31.887		

y = Whole pin is visible when  
using format 6x12  
y = Bei Format 6x12 ganzer  
Bolzen sichtbar  
y = En utilisant le format 6x12  
toute la goupille est visible



## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1209-1

\*\*\*\*\*

DATUM 96/11/22

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.22.214	2	567.12.583
3	164.31.888	4	161.73.090
5	567.12.234	6	567.12.595
7	164.31.655	8	164.31.653
9	567.12.574	10	169.40.000
11	567.22.203	12	166.36.063
13	567.22.201	14	567.12.247
15	567.22.230	16	567.12.530
17	168.01.010	18	567.22.224
19	164.31.870	21	567.22.301
100	109.05.668	101	109.05.669
102	109.05.667		

**sinar**

SINAR AG SCHAFFHAUSEN

Coupling for measuring tape

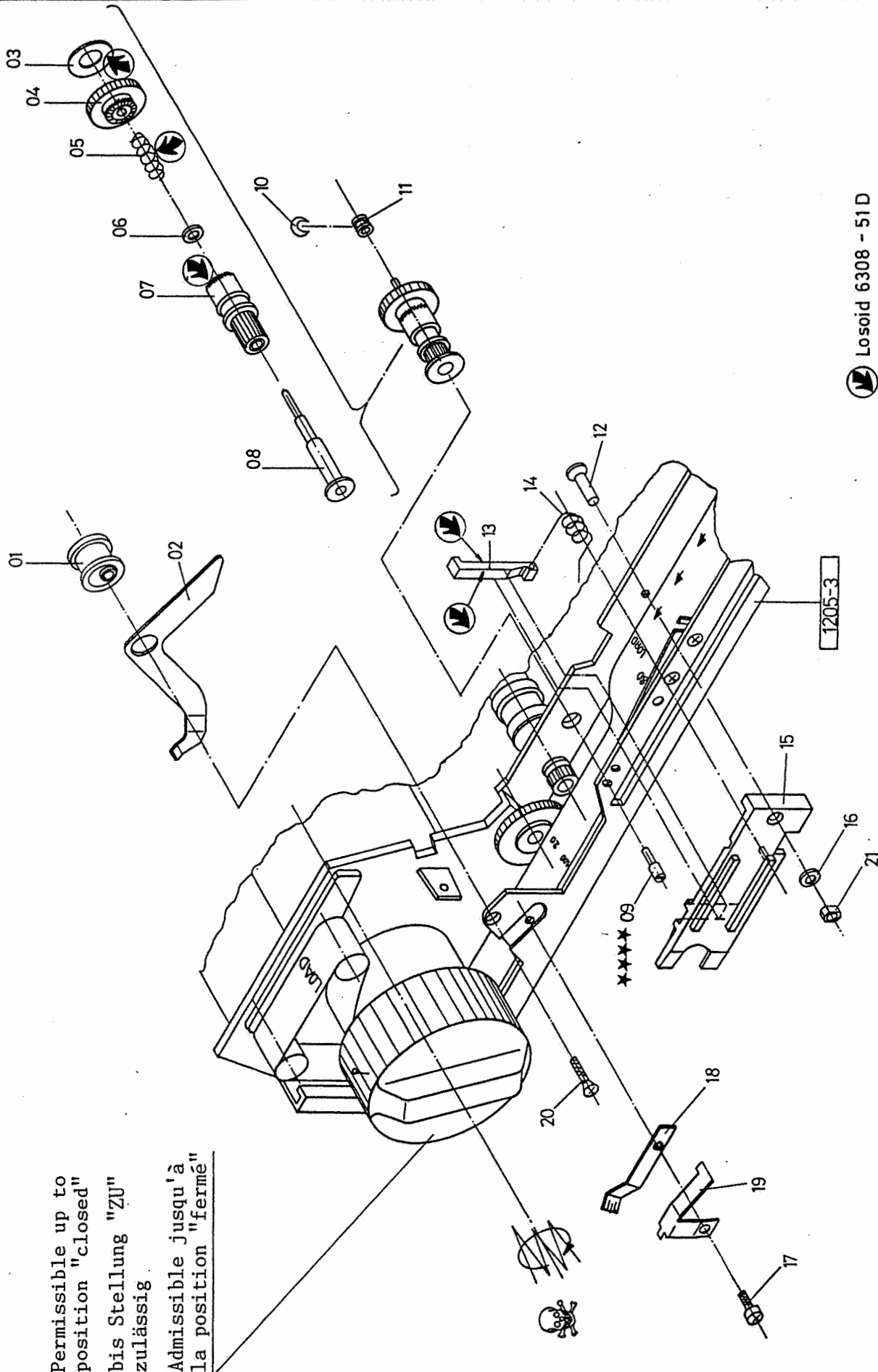
Messbandkupplung

Zoom

1209-2

567.22

Embrayage pour ruban de mesure



Losoid 6308 - 51 D

Loctite 243

Permissible up to  
position "closed"  
bis Stellung "ZU"  
zulässig

Admissible jusqu'à  
la position "fermé"

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## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1209-2

\*\*\*\*\*

DATUM 89/09/27

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.249	2	567.12.372
3	166.39.203	4	567.12.306
5	168.00.040	6	166.38.058
7	567.22.309	8	567.22.527
9	567.22.525	10	166.70.011
11	567.12.516	12	164.31.870
13	567.22.304	14	168.02.022
15	567.22.306	16	166.68.018
17	161.73.034	18	567.12.373
19	567.12.374	20	164.31.030
21	165.82.530		

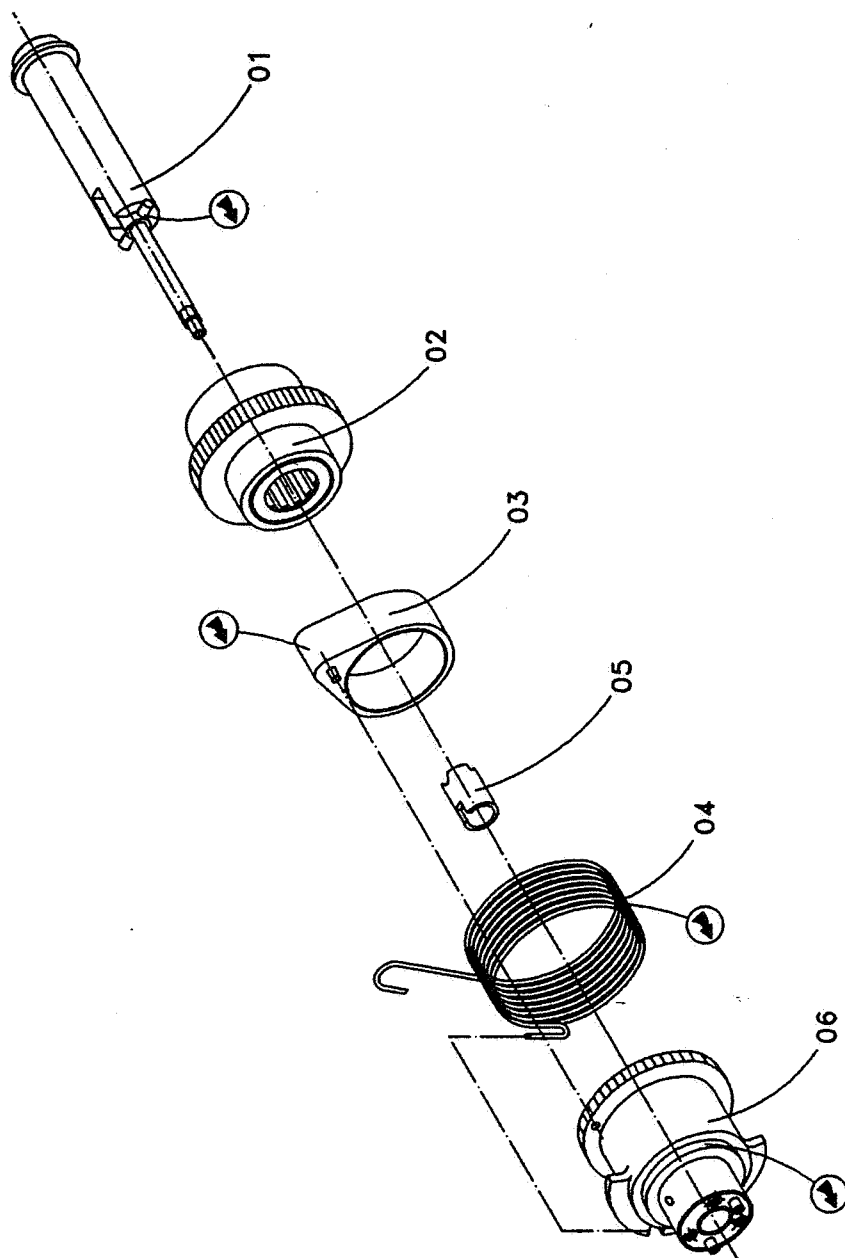
**sinar**

SINAR AG

567.22./32. ...

Coupling axle  
Kupplungsachse  
Axe d'accouplageZoom/Zoom2

1209-11



⊕ = Losoid 6308-51D

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Date: 5.95

Vs.:

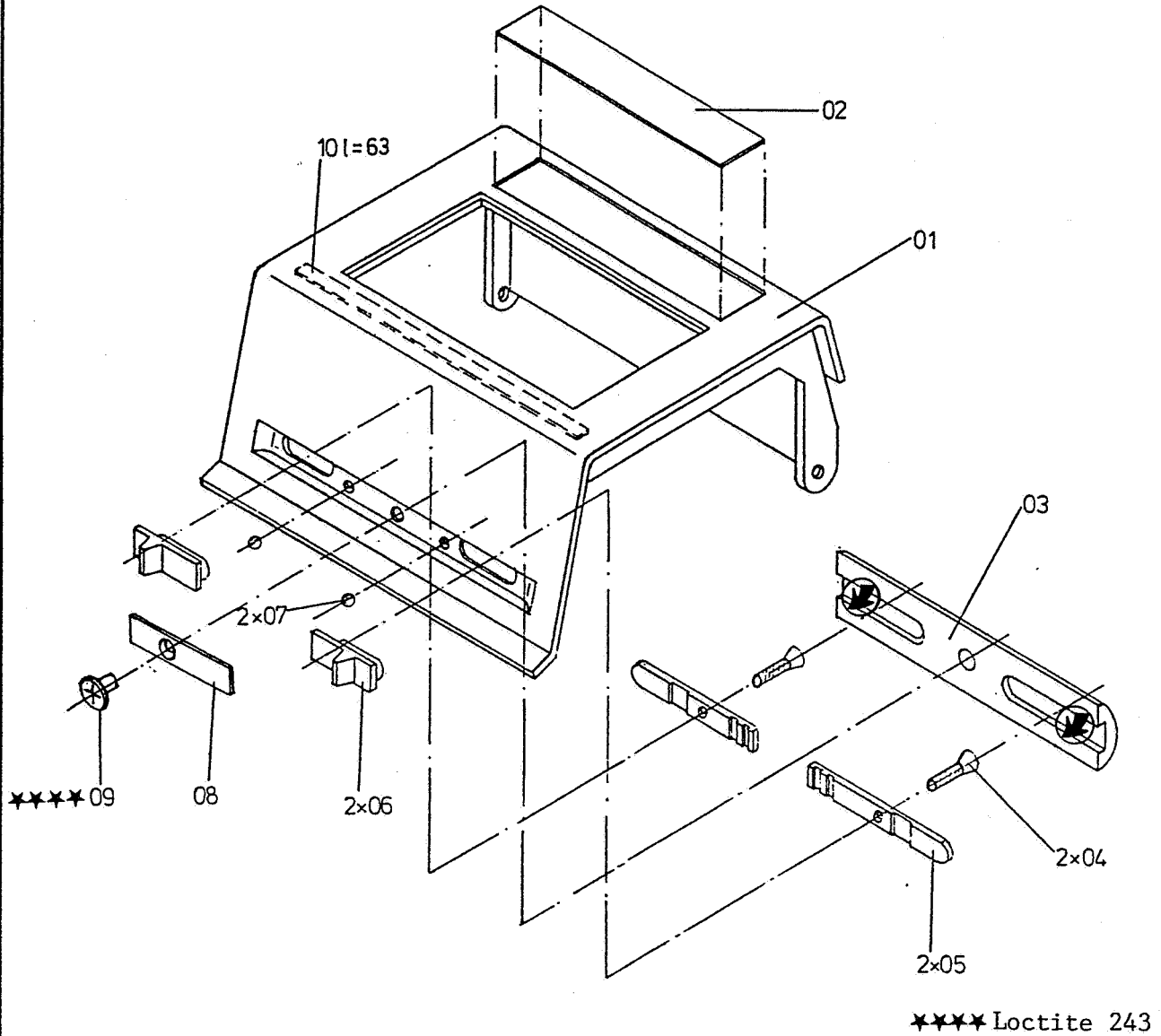
## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1209-11

DATUM 98/02/13

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.230	2	567.22.206
3	567.22.200	4	168.02.037
5	567.12.562	6	567.22.209





Losoid 6308 - 51 D

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1209-12

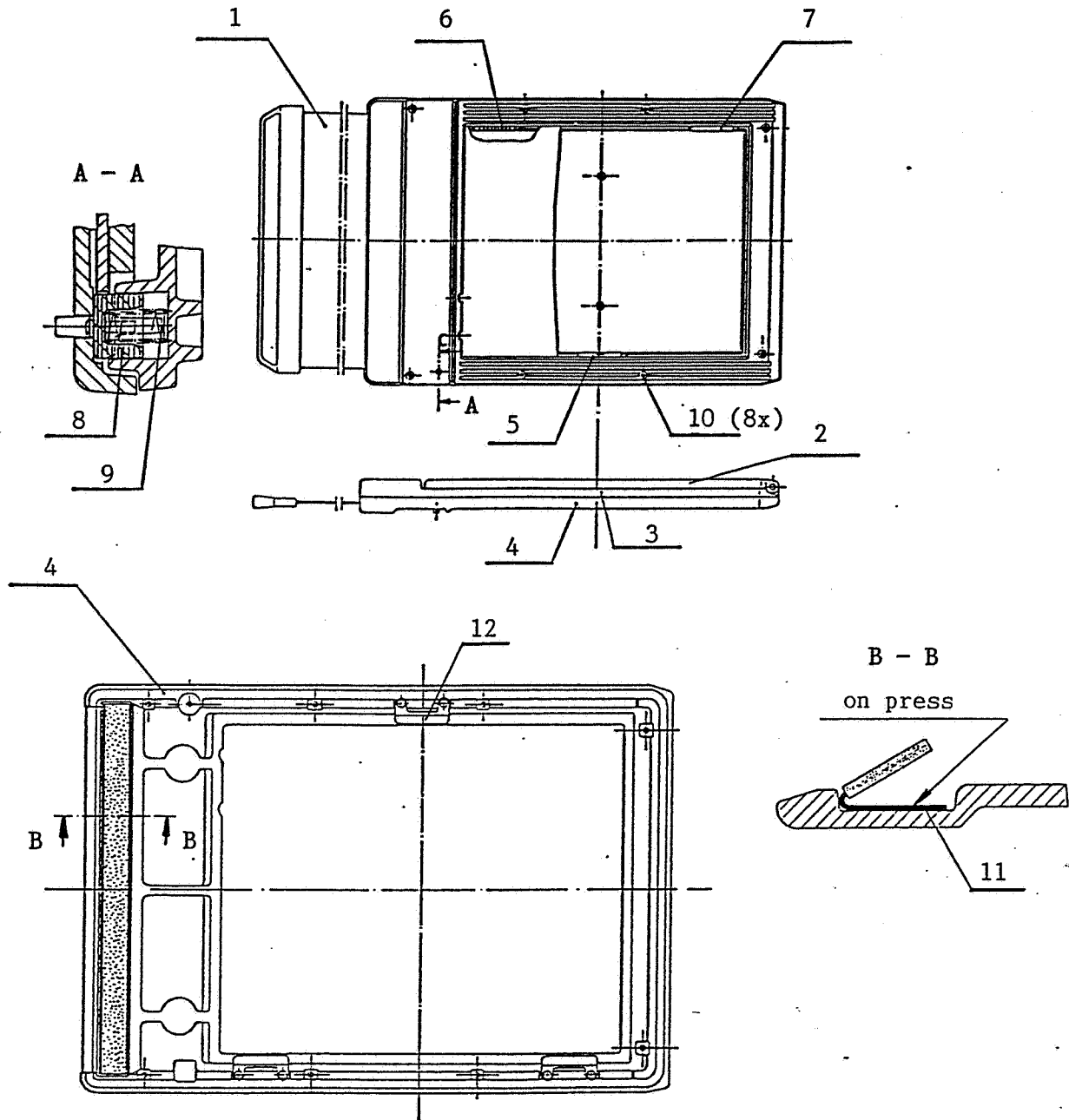
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DATUM 96/10/30

INDEX 1

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.430	2	567.22.520
3	567.12.576	4	164.31.655
5	567.12.594	6	567.12.432
7	168.70.018	8	567.22.365
9	164.11.114	10	149.40.016

## Exchange of the seal (11)



- 1 Dark-slide
- 2 Cover
- 3 Carrier
- 4 Film gate
- 5 SINAR foil
- 6 Copyright foil
- 7 Foil (without imprint)
- 8 Locking cam
- 9 Pressure spring
- 10 Screws M 1,6 x 8 / SINAR no. 164.31.657 (8x)
- 11 Seal / SINAR no. 566.36.214 (1x)
- 12 Retaining spring

## Exchange of the seal (11)

### Disassembly:

1. Remove dark-slide (1)
2. Loosen 8 screws (10) (do not damage the screws)
3. Remove film gate (4). Attention: Do not loose (8) and (9) !
4. Remove foils (5), (6) and (7)
5. Remove old seal (11).

**IMPORTANT:** The film gate has to be re-mounted on the **same** film holder!

### Assembly:

1. Remove protective cover of adhesive foil at the seal (11). Adhere and press (arrow) the seal according to the sketch (cut F-F).
2. Put (8) and (9) into carrier (3) and hold down with a thin object, now the film gate (4) can be mounted.  
Control: It must be possible to operate the locking cam (8) easily.
3. Fasten film gate (4) on carrier (3) with screws (10).
4. Open cover (2) and insert foils (5), (6) and (7) as far as it will go up to the retaining springs (12), close the cover (2).
5. Insert dark-slide (1) into film holder.

SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1210-1

\*\*\*\*\*

DATUM 92/11/16

INDEX 0

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
9	168.00.068	10	164.31.657
11	566.36.214		

**sinar**

SINAR AG

567.32. ....

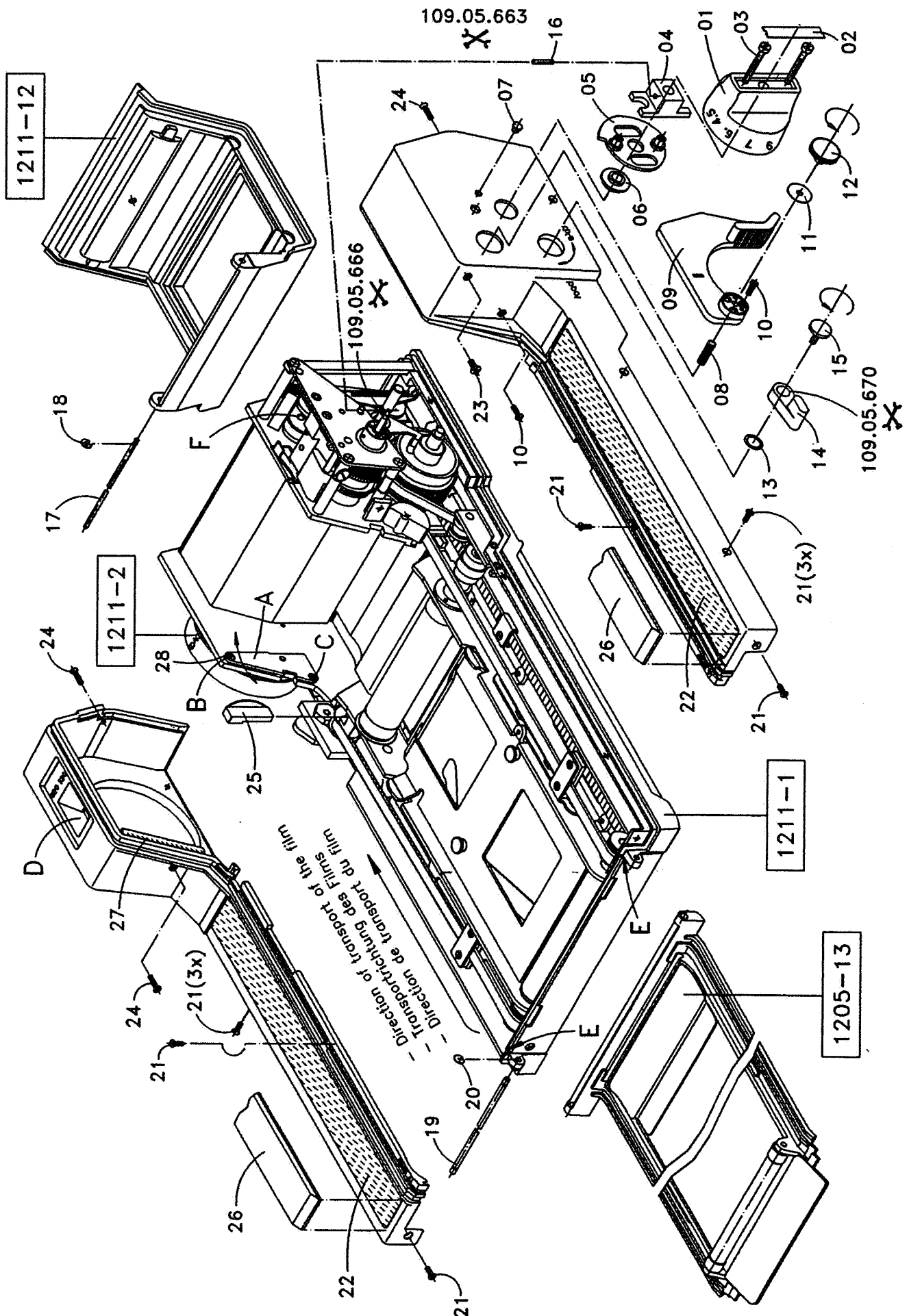
Rollfilm holders

Rollfilmkassette

Châssis pour rollfilms

ZOOM 2

1211-0



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Date: 6.12.88

Vis.: [Signature]

## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1211-0

DATUM 98/01/19

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.439	2	567.12.599
3	164.21.007	4	567.12.626
5	567.22.212	6	567.22.508
7	567.54.527	8	168.00.046
9	567.12.442	10	164.31.655
11	567.12.592	12	567.12.586
13	167.01.020	14	567.12.248
15	567.12.548	16	160.91.038
17	567.12.566	18	166.70.005
19	567.12.569	20	166.70.202
21	164.31.654	22	567.22.355
23	164.31.887	24	164.31.656
25	567.22.220	26	567.22.558
27	567.22.634	28	166.30.061
100	109.05.663	101	109.05.666
102	109.05.670		

Characteristics	Defects	Measures
1. Light leakage or scratches on film.	See troubleshooting list „light leakage and scratches“ (1211-00, sheet. 4)	
2. Damage to film edge.	Film not running true. Guide trim (1211-0, pos. A) in wrong position, or washer (1211-0, pos. 28) is missing.	Mark position of the guiding plate. Detach screw (1211-0, pos. B) approx. ½ rotation. In case of damage of the right film edge (in direction of transport) the guide edge has to be tilted clockwise approx. 0,2 - 0,3 mm around pivot (1211-0, pos. C) . If the left film edge is damaged, it will have to be corrected the other way round. Should the washer be missed (1211-0, pos. 28) put a replacement underneath the guiding plate (1211-0, pos. A).
3. Frame intervals to small.	Setting of format measuring unit.	Select format 4.5 x 6. Dismount format selector, hub and baseplate (1211-0, pos. 01, 04, 05). Remove shutter plug (1211-0, pos. 07) from side cover. With screwdriver (max. Ø 2,4) through opening adjust the excentric control (1211-1, pos. F) about 1/8 rotation clockwise. After correction, mark and control frame intervalls set by format 6x7 (approx. 71,5 mm).
4. Frame intervals to large.	Setting of format measuring unit.	Proceed as with point 3, but adjust the excentric control (1211-1, pos. F) anticlockwise.
5. Film intervals strongly irregular.	Format measuring unit defect. (1211-1, pos. C).	Repair at Sinar.
6. Rear mask (1211-1a, pos. 30) misaligned.	ScREW (1211-1a, pos. 34) loose or beltguide (1211-1a, pos. 32) defect.	Disassemble film holder according (1211-1a, pt. 1-14). Hold clamp (1211-1a, pos. 32) with a wrench (8 mm) and turn countersunk head screw (1211-1a, pos. 34). Replace beltguide und put back substitute in a 90° degree angle. Position mask correctly 55,5 ±1mm (format 6x6) and tighten screws.
7. Rear format mask (1211-1a, pos. 30) defect.	damaged or destroyed.	Replace according manual (1211-1a, pt. 1-19).
8. front format mask (1211-1a, pos. 28) misaligned.	Screws (1211-1a, pos. A) loose, or rack (1211-1a, pos. B) defect.	Disassemble holder according (1211-1a, pt. 1-14) . Detach screws and replace rack (1211-1a, pos. B). Adjust to format 6x7 and position mask correctly 69 ±1mm (1211-1a). Afterwards tighten screws of the rack.

Characteristics	Defects	Measures
9. Front mask (1211-1a, pos. 28) defekt.	damaged or distorted.	Replace according manual (1211-1a, pt. 20-25).
10. Format change knob jammed.	Locking bolt (1211-1, pos. B) jammed or locking lever (1211-1, pos. A) bented.	Disassemble holder according manual (1211-1a, pt. 1-12). Align locking lever (1211-1, pos. A) or clean and lubricate locking bolt (1211-1, pos. B). Possibly replace bearing plate (1211-1, pos. 18).
11. Format stop does not function.	Format measuring unit (1211-1, pos. C) defect.	Repair at Sinar.
12. Film start lock does not function.	Adjusting of the tipping shaft (1211-0, pos. F).	Remove screw (1211-0, pos. 23) and regulate the adjusting screw with a screw driver through opening (max. Ø 1,5 mm) (1211-1, pos. D) approx. ¼ rotation anticlockwise.
13. Film start lock misaligned.	a) The display „EXP“ is in the film measure window (1211-0, pos. D) in front of the display-mark ( Film start lock to early).  b) The display „EXP“ is in the film measure window (1211-0, pos. D) after the display mark. ( Film start lock to late).	Dismantle front cover (1211-1a, pos. 15). Remove the cover on the right hand side (1211-1a, pos. 21) and the coupling slide (1211-1a, pos. 22). Remove measuring drum (1211-2, pos. 07) and adjust setting screw (1211-2, pos. A), ½ rotation anticlockwise. Check with mounted measuring drum.  Proceed according (13a), but rotate the adjust setting screw (1211-2, pos. A) approx. ½ rotation clockwise.
14. Load-Exp- lever (1211-0, pos. 14) broken or jammed.	Sleeve movement (1211-1, pos. E) in measure device (1211-1, pos. C) defect, or reset button (1211-0, pos. 15) jammed.	Check swivelling area (90°) of the sleeve movement (1211-1, pos. E). In case of functioning, just replace a new lever (1211-0, pos. 14). Should the steering tube or reset bolt be jammed, the service has to be done at Sinar.
15. Transport lever (1211-0, pos. 09) jammed.	Coupling sleeve (1209-11, pos. 05) or coupling shaft (1209-11, pos. 01) defect.	Detach left sidecover (1211-1a, pos. 17) according manual (1211-1a, pt. 1-12). Unscrew bearing plate (1211-1, pos. 18) and remove driving shaft (1209-11). Exchange coupling sleeve (1209-11, pos. 05) or coupling shaft (1209-11, pos. 01).
16. Film is not transported.	a) Film cartridge (1205-14a) is not inserted properly.	When loading, press the film cartridge vertically into the film holder up to the limit stop and press the transport lever. Control if the take up spool was coupled.

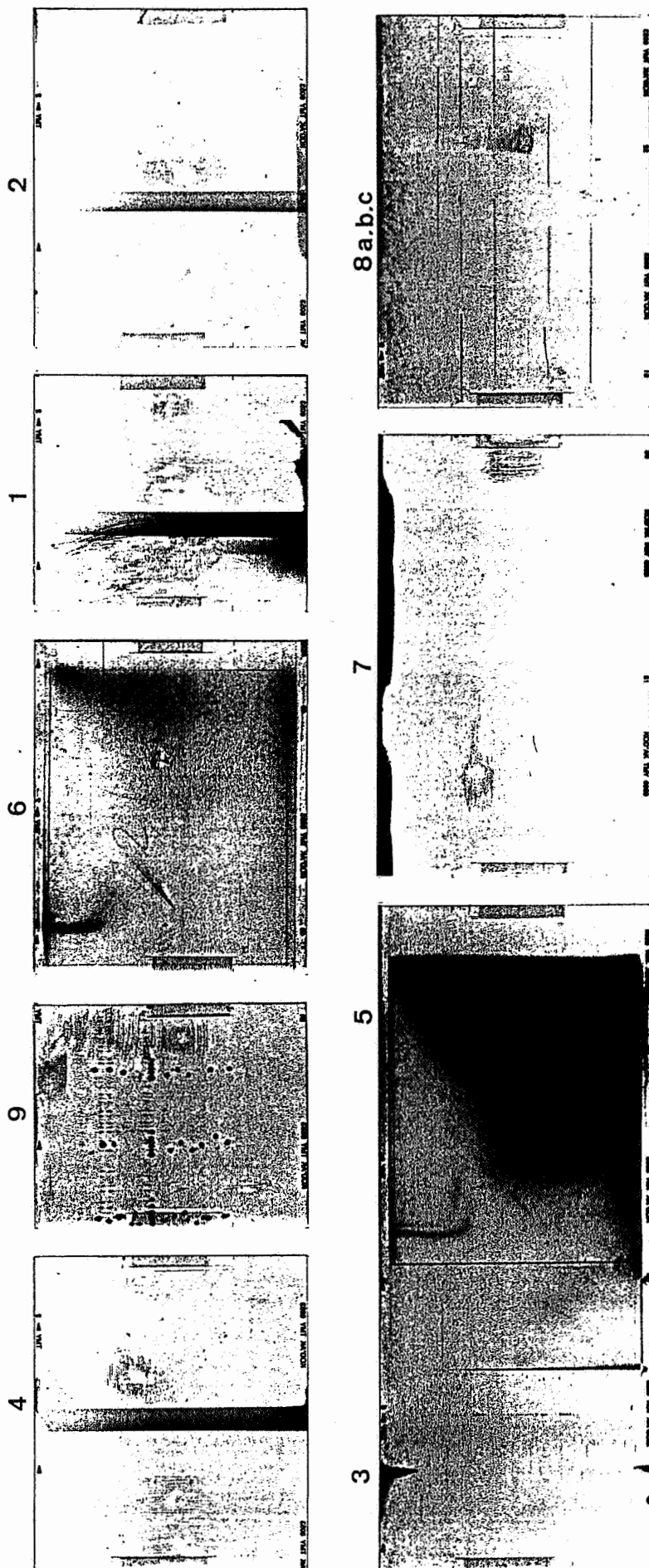
567.32.

Characteristics	Defects	Measures
17. Darkslide (1211-1a, pos. G) jammed.	b) Spool coupling at film cartridge defect.  Slide in bearing sticky or jammed.	Exchange coupling sleeve (1205-14a, pos. 09) Control if long spring dowel sleeve ( 5mm ) was mounted (1205-14a, pos. 11).  Replace filmgate (1211-1a, pos. 25) according manual (1211-1a, pt. 20-24).

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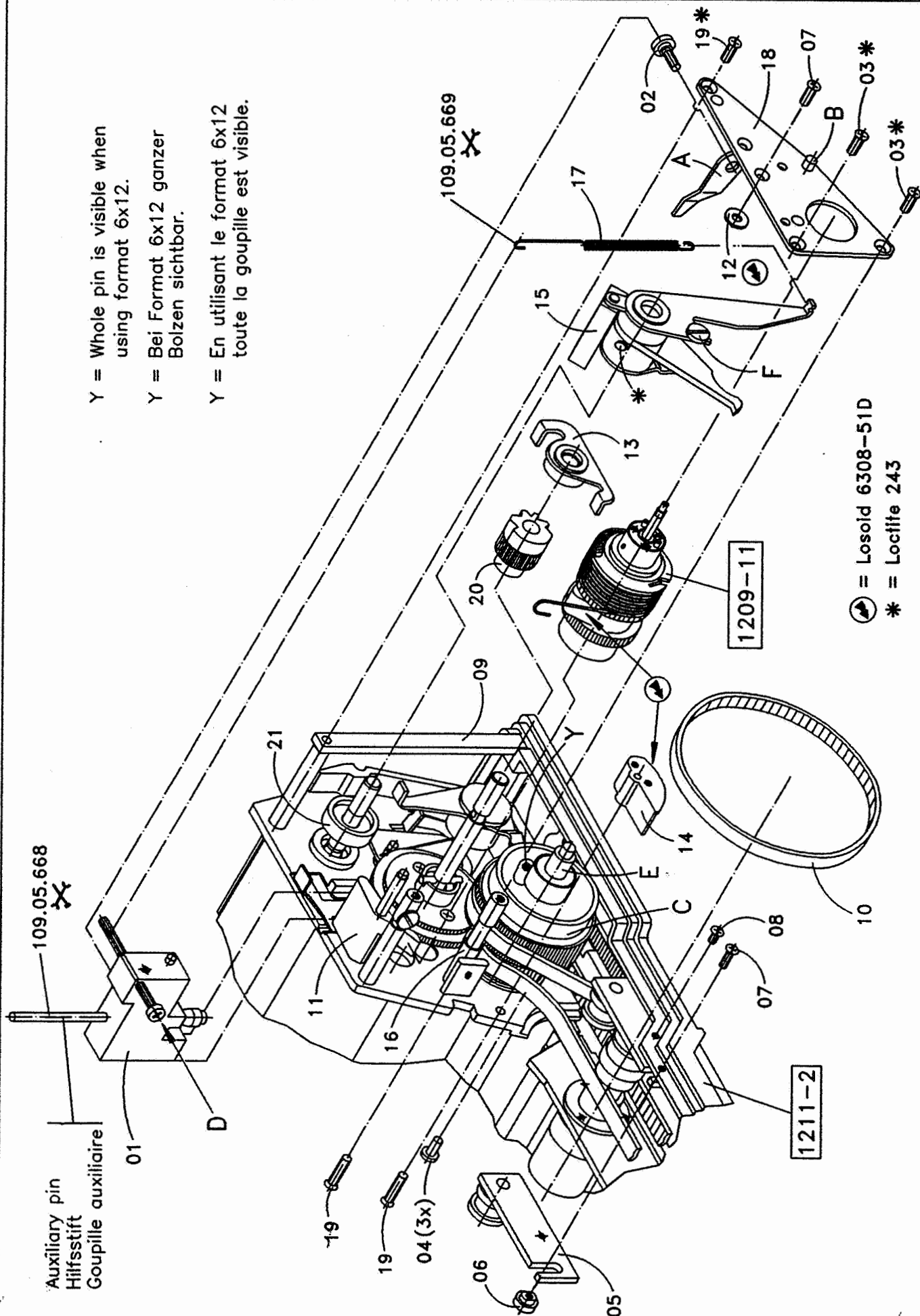


1. Light leakage at cover behind (1211-12). Cover shutter closed only on one side
2. Light leakage at cover window (1211-12). Seal (1211-12, pos. 08) in U-slot damaged or missing. Replace seal.
3. Light leakage at front between side panels and support. Seal on both sides at front with Elch sealing (1211-0, pos. E)
4. Light leakage between side panels and support at cover shutter, seal rubber (1211-0, pos. 27) is missing or replace.
5. Light leakage between cover plate (1211-1a, pos. H) and film gate (1211-1a pos. I) The cover plate has partly been detached. Exchange film gate (1211-1a, pos. 25) according to instruction (1211-1a, points 20-24)
6. Light leakage between film gate (1211-1a, pos. 25) and support (1211-1a, pos. 35). One or several screws (1211-1a, pos. 26) are detached or missing.
7. Light leakage because of film not running true. The cover paper of the film is strongly waved on one spool side. Correct film not running true.
8. Scratches on film:
  - a) Sealing lips (1205-14a, pos. 05, 06) of film cartridge is strongly soiled, replace seals
  - b) Pressure roll (1205-13 pos. 03) at cover in front is damaged or blocked. Exchange roll.
  - c) Sliding roll (1211-1a, pos. C) are blocked or bent. Repair at Sinar.
9. Static discharge at cover in front (1205-13) replace slide foil (1205-13, pos. 07).

Y = Whole pin is visible when using format 6x12.

Y = Bei Format 6x12 ganzer Bolzen sichtbar.

Y = En utilisant le format 6x12 toute la goupille est visible.



④ = Losid 6308-51D

**\* = Loctite 243**

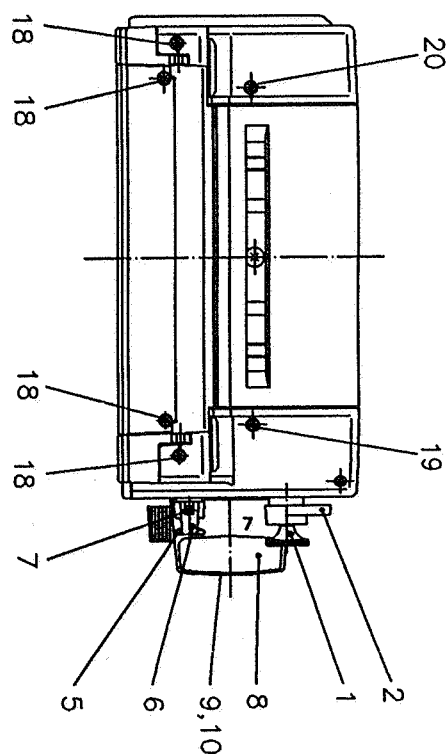
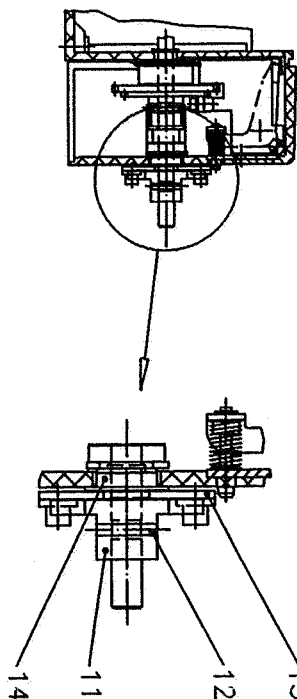
## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1211-1

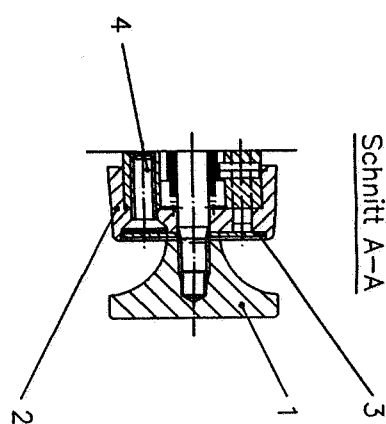
DATUM 98/02/13

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.22.214	2	567.12.583
3	164.31.888	4	161.73.090
5	567.12.234	6	567.12.595
7	164.31.655	8	164.31.653
9	567.12.574	10	169.40.000
11	567.22.203	12	166.36.063
13	567.22.201	14	567.22.247
15	567.22.231	16	567.12.530
17	168.01.010	18	567.22.224
19	164.31.870	20	567.22.301
21	567.22.576	100	109.05.668
101	109.05.669		

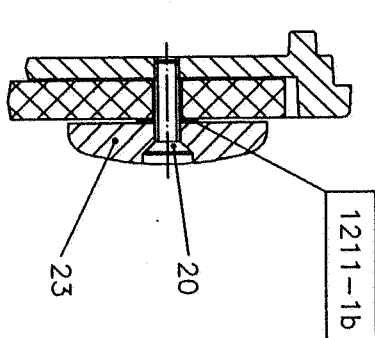
Schnitt B-B



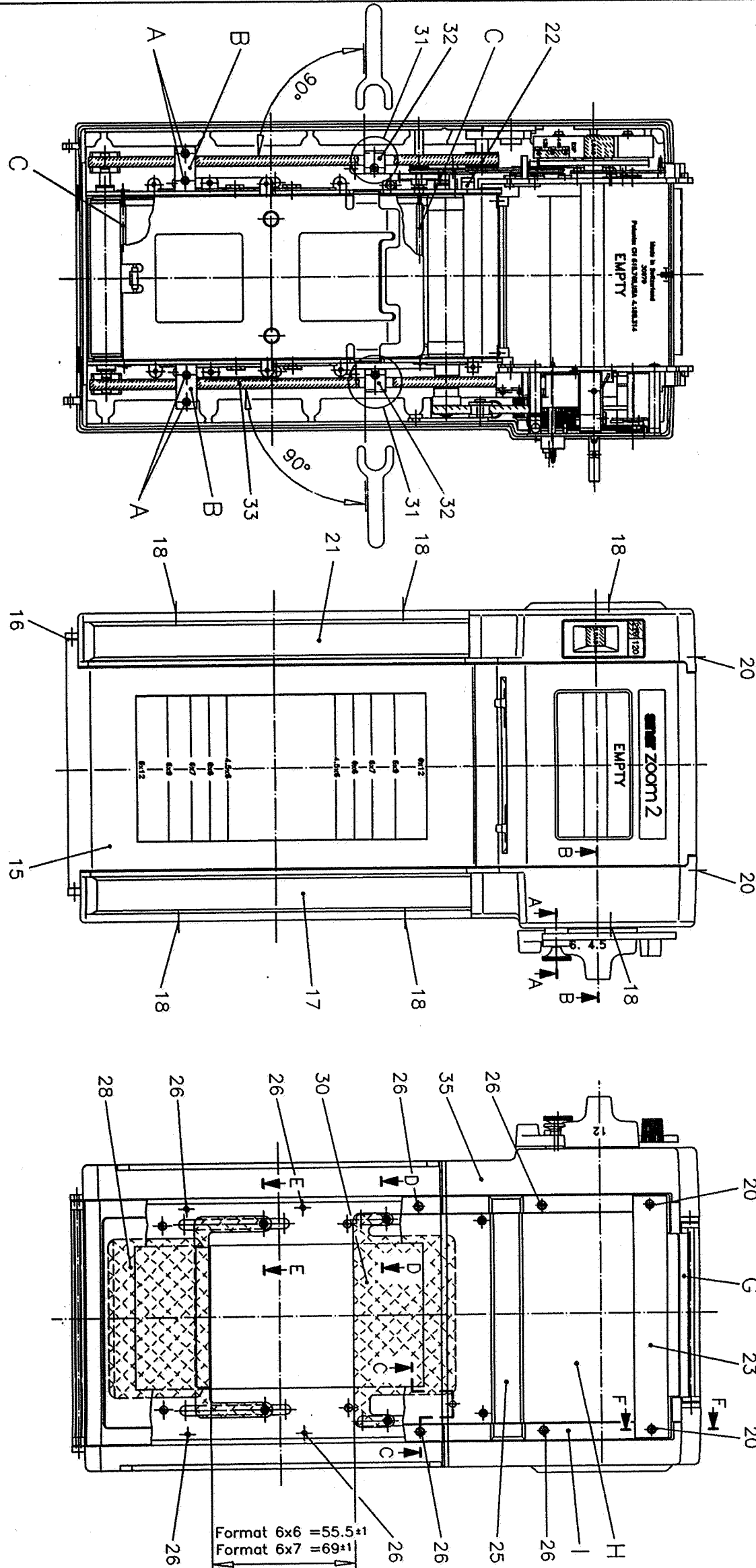
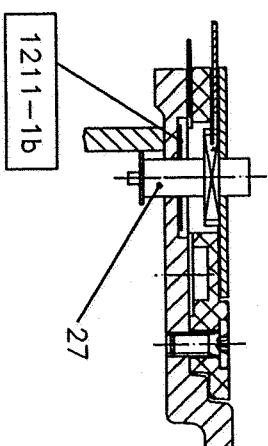
Schnitt A-A



Schnitt F-F

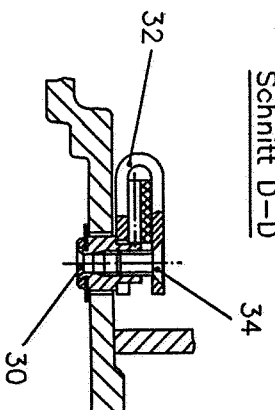


Schnitt C-C

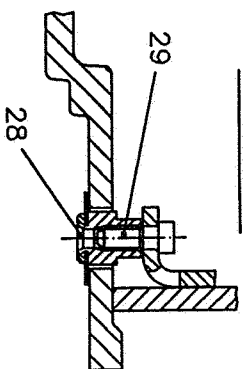


Format 6x6 = 55.5x1  
Format 6x7 = 69x1

Schnitt D-D



Schnitt E-E



Pos.	
M1.6x3=	34
M1.6x4=	18
M1.6x5=	19; 4
M1.6x6=	20
M1.6x3,2=	26

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567.32.

## Replacement of the front [28] and the back [30] format mask

### Sequence of the disassembly

1. Screw off the coupling button [1] (turn in counter-clockwise)
2. Screw off the transportation lever [2] (remove the cover plates [3] and detach 3 countersunk screws[4])
3. Screw off the reset button [5] (turn in counter-clockwise)
4. Dismount the reset lever [6] (release the threaded pin [7])
5. Dismount the format selector knob [8] (remove the cover plates [9] and the 2 fillister head screws [10])
6. Dismount the hub [11] (remove the rollpin [12] with hole through)
7. Remove base plate [13] from shaft
8. Remove distance bush [14] from shaft
9. Set format 6 x 6 (for the disassembly of the film holder)
10. Set format 4,5 x 6 (for the assembly of the holder)
11. Dismount front cover [15] (remove 1 clip [16])
12. Remove the side cover on the left [17] (remove 7 countersunk screws [18, 19, 20])
13. Remove the side cover on the right [21] (remove 7 countersunk screws [18, 20])
14. Detach the mount coupling slide [22]
15. Dismount bar [23] (remove 2 countersunk screws [20] and, if available, 2 washers [24])
16. Dismount the film gate [25] (remove 8 fillister head screws [26] and 2 countersunk screws [18])
17. Detach locking bolt [27]
18. Detach front mask [28] (detachable [29])
19. Detach back mask [30]. Mark position [31] of the clamp [32] on the tooth belt [33]. Hold clamp [32] with straddle wrench (8 mm) and detach countersunk screw [34]. Do neither **shift** nor **twist** the clamp [32]. Compare the mounted clamp [32] with the delivered clamp [32]. If there is a difference, the existing clamp [32] has to be replaced.

## Replacement of the front [28] format mask

### Sequence of the assembly:

1. Set format 4.5 x 6
2. Dismount front cover [15] (remove 1 clip [16])
3. Dismount bar [23] (remove 2 countersunk screws [20] and, if available, 2 washers [24])
4. Dismount film gate [25] (remove 8 fillister screws [26] and 2 countersunk screws [18])
5. Detach locking bolt [27]
6. Dismount front mask [28] (put on [29])

### Assembly:

Keep the reverse sequence for both working processes!

Before mounting the side cover on the left [17] and on the right [21] check the control dimensions 69 ±1 mm of the mask [28, 30].

1. Adjust format 6 x 7
2. Check the distance of the mask 69 ±1 mm. Keep dimensions. In case of a deviation, readjust clamps [32].

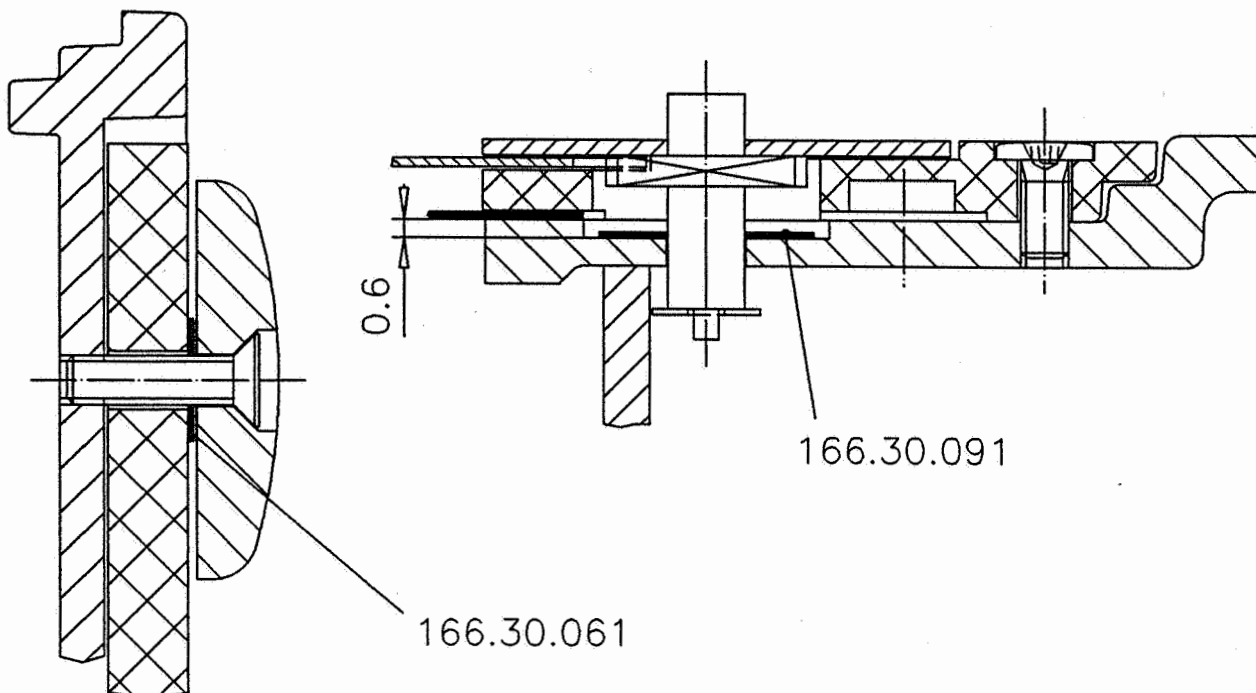
## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1211-1A

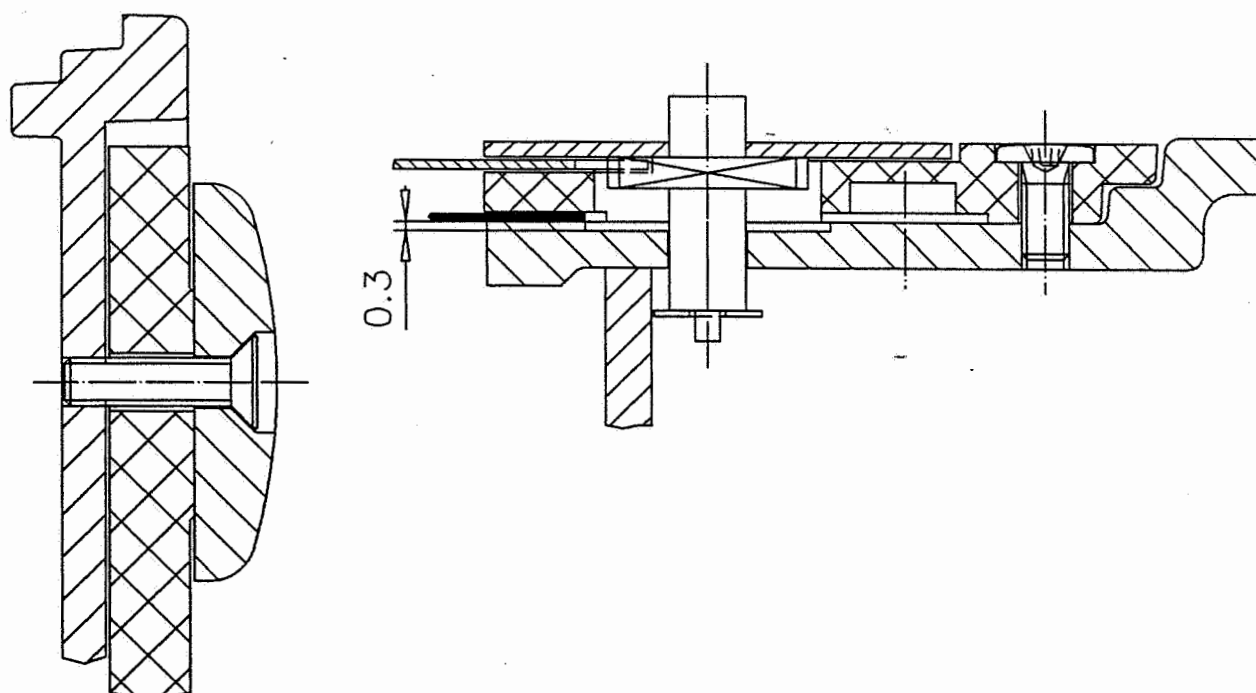
DATUM 99/03/11

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
12	160.91.038	18	164.31.654
19	164.31.655	20	164.31.656
25	567.22.243	26	164.21.653
28	567.22.257	30	567.22.258
32	567.22.363	34	164.31.653

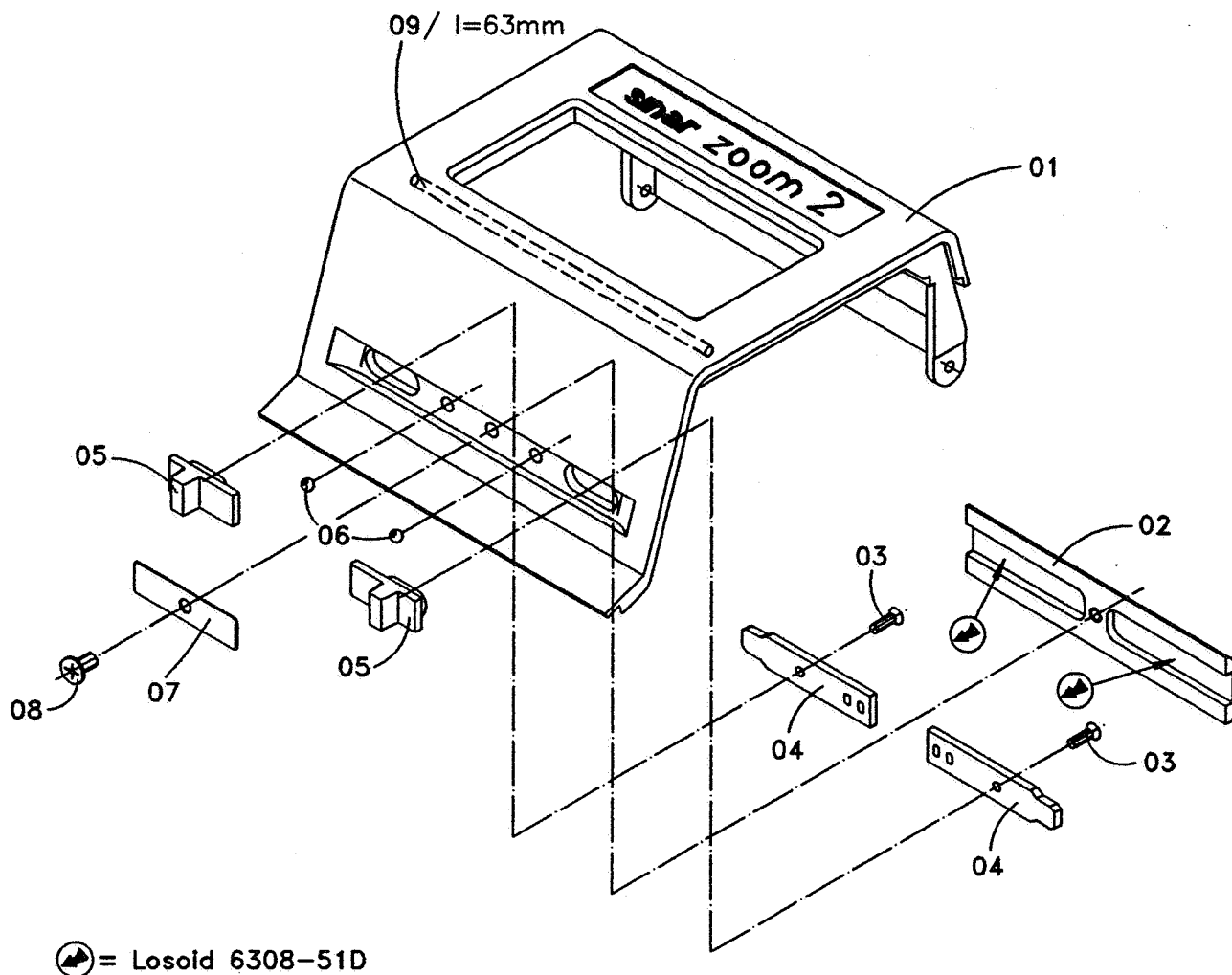
old condition  
alter Zustand  
vieil état



new condition  
neuer Zustand  
nouvel état



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SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1211-12

DATUM 98/02/13

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.12.430	2	567.22.585
3	164.31.655	4	567.22.584
5	567.12.432	6	168.70.018
7	567.22.365	8	164.11.114
9	149.40.016		



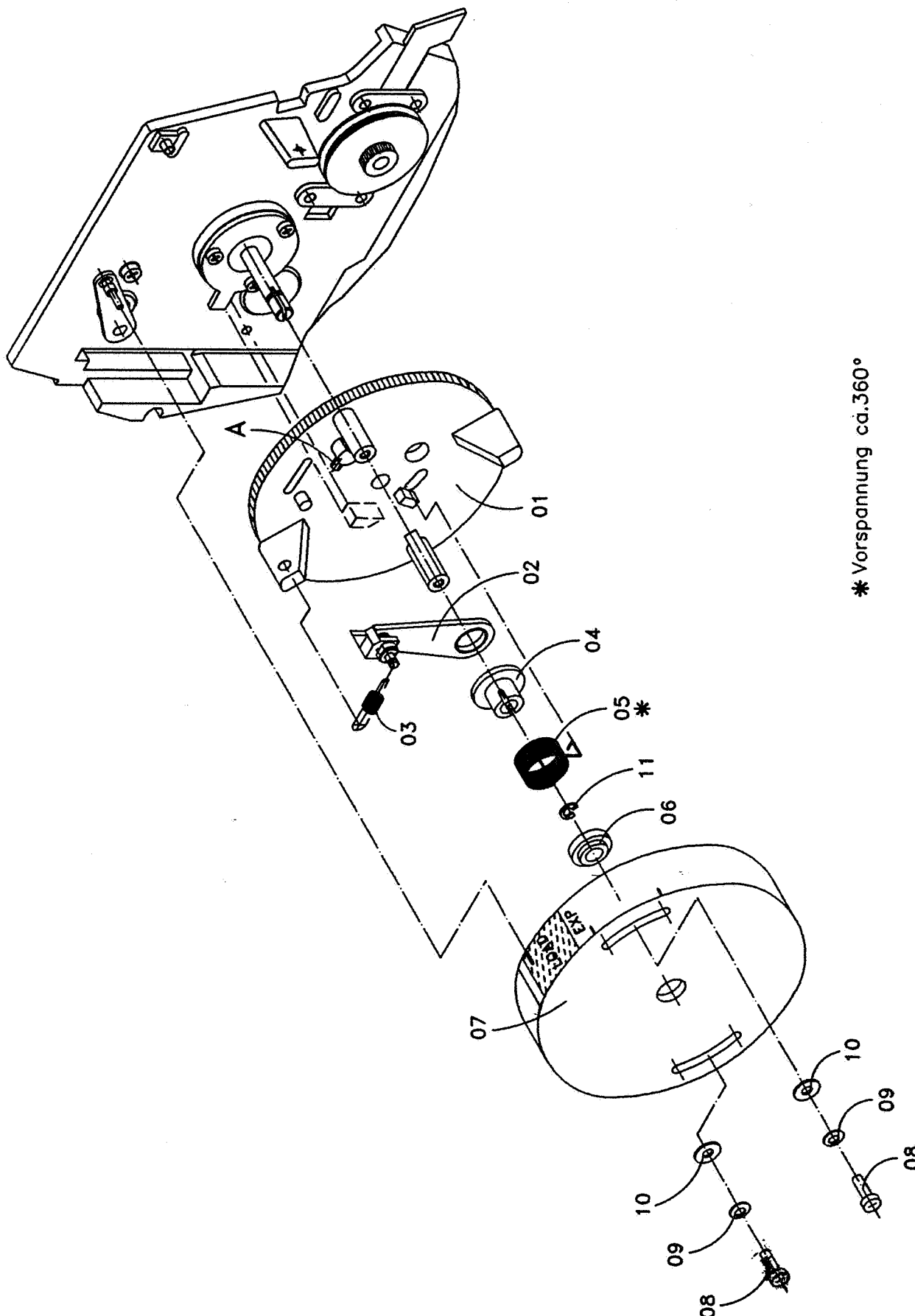
**sinar**

SINAR AG

567.32. ...

Frame counter  
Anzeigetrommel  
Tambour d'affichageZoom2

1211-2

**\* Vorspannung ca. 360°**

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Edition No.: 1

Replaces all previous issues./Ersetzt alle bisherigen Ausgaben./Remplace toutes les précédentes éditions.

Date: 6. 98

Vis.: 1

## SPARE PARTS - ERSATZTEILE - PIECE DE RECHANGE

S1211-2

DATUM 98/02/13

POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE	POS	PART NO. ERSATZTEIL NR. PIECE DE RECHANGE
1	567.22.216	2	567.22.215
3	168.01.011	4	567.54.525
5	168.02.025	6	567.54.524
7	567.22.241	8	164.21.655
9	166.68.016	10	166.31.055
11	166.70.011		